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| **1.** | Jane hangs a square-shaped mirror in her bathroom. The area of the mirror is 361 square inches. What is the length of one side of the mirror? |
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| **A.** | 18 inches |

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| **B.** | 19 inches |

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| **C.** | 90.25 inches |

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| **D.** | 180.50 inches |

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| **2.** | **What is the value of** /files/assess_files/77621dce-ee9f-4c37-ab5e-3516d16bd66e/ceb80b7f-eea9-48cf-8f75-6117191bc6ed.png |
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| **A.** | 3 |

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| **B.** | 9 |

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| --- | --- |
| **C.** | 24 |

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| **D.** | 81 |

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| **3.** | **What is the value of** /files/assess_files/cc00f764-0a1b-4d00-9512-0c3dc802ddc4/a052aa8b-af71-49ab-8355-13aa13658403.png |
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| **A.** | 4 |

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| **B.** | 8 |

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| **C.** | 16 |

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| **D.** | 32 |

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| **4.** | /files/assess_files/c2661205-f630-4d96-ae24-5765e009d08e/47572edb-f304-4983-8d11-33960fe163e7.png |
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| **A.** | 32 |

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| **B.** | /files/assess_files/bc22b93b-6765-4bd5-8507-66f535a2ed10/3bd996ab-f408-445a-aae5-a9ac0d1f2c55.png |

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| **C.** | /files/assess_files/1bb8d7d7-f838-4f3f-a1a3-17a7a5b12453/642ac57e-80f6-4f24-9b10-cd0acddbe26b.png |

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| **D.** | /files/assess_files/b6c0d068-68f0-455c-828c-607a7a4c3921/d3e21227-7726-4da1-bbc4-d9f32eb50bab.png |

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| **5.** | **If** /files/assess_files/bcb4e827-4579-4732-9da6-5032554bd185/f9df51aa-d657-4940-89ba-b5ec66a3a128.png **what is one possible value of *y*?** |
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| **A.** | /files/assess_files/68eab3a6-471b-4210-be63-3ae23f4417f3/4a29c8fa-e815-4e9e-92dd-ec06d9d8fbef.png |

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| **B.** | /files/assess_files/2481387c-41be-4b45-8cae-748beb662b1d/f4e17426-3c84-48c4-94d7-61b62edc0e39.png |

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| **C.** | /files/assess_files/a9f057a6-ea3c-4c81-97a7-3be40df8d553/27b84cdd-c1d7-4c52-860c-0fbb8ec30747.png |

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| **D.** | /files/assess_files/5b0384ad-f8fd-4c2d-bedd-1c0b91c4a5a7/2e76bb5f-1ff0-47ec-b185-8b73a7d22467.png |

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| **6.** | **Which model BEST represents** /files/assess_files/9cccb200-1e39-481c-8a35-9d9ce93f90c4/5429e2cc-d539-408d-8979-546569380fbd.png |
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| **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182343.jpg |

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| **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182344.jpg |

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| **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182770.jpg |

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| **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182345.jpg |

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| **7.** | **Which model BEST represents** /files/assess_files/e96b7a94-74b6-44c9-84bd-7914a81e5143/c27e2b9a-cee0-4f95-ab55-379823c2cc86.png |
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| **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182835.jpg |

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| **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182836.jpg |

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| **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182837.jpg |

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| **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182838.jpg |

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| **8.** | **Which model BEST represents** /files/assess_files/38afa20d-b3b9-4d03-8a42-f72c5babe176/3edfab48-a09f-45fd-9180-2dc14cc67479.png |
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| **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182831.jpg |

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| **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182832.jpg |

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| **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182833.jpg |

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| **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182834.jpg |

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| **9.** | **Which model BEST represents** /files/assess_files/fd4cd2ea-7dec-430b-abc3-503fd968f78a/d67bcb43-b5a9-4517-a9fc-458212ee8be9.png |
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| **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/183739.jpg |

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| **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/183740.jpg |

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| **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/183741.jpg |

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| **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/183742.jpg |

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| **10.** | **Aashi needs to solve** /files/assess_files/ca9304e1-ec0d-42bb-b781-33f407bd0399/c15e7a68-f082-4397-8be8-cbb81fa5b7c1.png **on her math homework. Which one of these models would be BEST for her to use?** |
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| **A.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182839.jpg |

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| **B.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182840.jpg |

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| **C.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182841.jpg |

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| **D.** | /files/assess_files/dce079d0-d222-41b9-bae3-ad8f7379f663/182842.jpg |

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| **11.** | **In the equation** /files/assess_files/7b783631-e20e-475f-9021-e0e543927945/b2288d25-4dd6-4611-a7a2-078504ef3b94.png **what is the value of *x*?** |
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|   |

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| --- | --- |
| **A.** | /files/assess_files/95d810ec-3f79-4141-ae18-12ccae084ae9/15da1478-f054-4828-938e-958ecceaa91e.png |

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| **B.** | /files/assess_files/5f5681ac-ac9c-4e25-9f01-2741fd4ffa1a/08a566d2-afae-4279-a8b4-668d706209c1.png |

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| **C.** | /files/assess_files/82d513ea-da1b-45c0-a4f7-e8b75948affd/ed8515de-c6fe-40d5-b764-238c095f0dba.png |

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| **D.** | /files/assess_files/61ec06b9-43c6-42a3-a46f-6137c6f96c5f/92651b8c-624e-4251-b696-0614a82ba965.png |

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| **12.** | **What number is** /files/assess_files/442d6259-53f3-4a61-a3a9-c584bad8f9e5/cf280070-2bdb-497e-8a89-4f97d56e850c.png **equivalent to?** |
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| **A.** | 4 |

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| **B.** | 8 |

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| --- | --- |
| **C.** | 16 |

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| **D.** | /files/assess_files/3013c5ef-25b0-4b0e-a01e-ecf672fdc3e8/2a4667b6-cd4d-4b6b-917f-1f1517abccfe.png |

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| **13.** | **The area of this square is 144 square inches.**/files/assess_files/9d3b2da8-5610-4e7c-897a-ae4df47e3a16/148878.jpg**What is the length of each side, *s*, of the square?** |
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| **A.** | 72 inches |

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| **B.** | 36 inches |

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| --- | --- |
| **C.** | 16 inches |

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| --- | --- |
| **D.** | 12 inches |

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| **14.** | **Which represents the solution to** /files/assess_files/b7c0d76a-7bf6-4a8b-acfc-01db75a06b8b/bbb69746-e2e9-41b2-ad08-6bfead9d3482.png**?** |
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| **A.** | /files/assess_files/e10811be-5e21-4690-8e74-644d7f7eb1be/115d33d3-7d66-4ec4-8266-d3c8d528a172.png |

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| **B.** | /files/assess_files/7a091915-2267-481a-a6d7-c73d13cbd7bd/4ab6af06-bb1f-4e29-aebf-994512a1fd3e.png |

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| **C.** | /files/assess_files/37d3c337-286a-42f8-aaf2-1ca9e65b553d/afc8360d-a814-4201-9fbe-c8d6ca43c291.png |

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| **D.** | /files/assess_files/1c9c53c5-6df0-445d-93de-a355b4625977/85ae087c-18e1-4903-83f6-57d2b5049431.png |

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| **15.** | **Which number is the square root of 64?** |
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| **A.** | 4 |

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| --- | --- |
| **B.** | 8 |

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| --- | --- |
| **C.** | 12 |

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| --- | --- |
| **D.** | 16 |

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| **16.** | **Which of the following is equivalent to** /files/assess_files/1b68dd2c-57f3-4b44-ad86-acaafa5b0dd7/9065cbbc-689f-4bf9-a7e9-688e86bcffbb.png |
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| **A.** | /files/assess_files/e56c4157-24f4-4be6-8445-a5d53508a021/e9dfb867-6f27-4206-8d7e-5c57d3e10aa8.png |

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| **B.** | /files/assess_files/a314faeb-dfcc-4797-9cfc-15ccf9804b81/07450d3b-64da-4b63-a161-8680d0d3c4c6.png |

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| --- | --- |
| **C.** | 14 |

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| --- | --- |
| **D.** | 98 |

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| **17.** | **What is the value of** /files/assess_files/871734ff-60f3-442a-be9a-74e64a0031a7/248791e7-f9d7-42a3-a194-d554ffc4a6d8.png |
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| --- | --- |
| **A.** | /files/assess_files/e33d273a-3ca8-4bab-b8f3-98aba2b87b3a/407fbdd1-546a-4d97-8870-6f2c3227a601.png |

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| **B.** | /files/assess_files/9f3bbb42-7832-4489-aa8e-abdc4c757c1a/599e9429-dd8c-4e90-8f4b-00e419cb5714.png |

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|   |

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| --- | --- |
| **C.** | 4 |

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| --- | --- |
| **D.** | 8 |

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| **18.** | **What is the value of *x* when** /files/assess_files/c03dffb7-3b0b-4b1d-a0b8-813e0f90d3f8/74383983-d72e-42e4-b6de-e3eadccd786f.png |
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| --- | --- |
| **A.** | 20 |

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| --- | --- |
| **B.** | 40 |

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| --- | --- |
| **C.** | 200 |

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| --- | --- |
| **D.** | 400 |

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| **19.** | **What is the value of** /files/assess_files/f0fe5dbc-6345-467d-ba42-86a951125cfa/45f41093-d4f4-4c23-a160-dc955272509f.png |
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|  |  |
| --- | --- |
| **A.** | 18 |

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| --- | --- |
| **B.** | 9 |

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|  |  |
| --- | --- |
| **C.** | 6 |

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| --- | --- |
| **D.** | 4 |

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| **20.** | **The carpet used in Parker’s bedroom covers an area of 121 square feet. If the carpet is square, what is the length of each side of the carpet?** |
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| **A.** | 9 feet |

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| **B.** | 11 feet |

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| **C.** | 12 feet |

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| --- | --- |
| **D.** | 13 feet |

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| **21.** | **Carrie made a square tablecloth with an area of 169 square inches. What was the length of each side of the tablecloth?** |
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|   |

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| --- | --- |
| **A.** | 9 inches |

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| --- | --- |
| **B.** | 13 inches |

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|  |  |
| --- | --- |
| **C.** | 17 inches |

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| --- | --- |
| **D.** | 23 inches |

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| **22.** | **The number** /files/assess_files/9b505f67-e974-4785-962c-10ec6cc8f5cf/7c129381-b004-4034-845a-7442581f7ea4.png **can be represented by which of the following geometric models?** |
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| **A.** | The perimeter of a square with an area of 100 square units |

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| **B.** | The side of a square with a perimeter of 10 units |

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| **C.** | The perimeter of a square with sides of /files/assess_files/063aa732-ec93-46c5-90da-0feef3a135af/171398b3-144b-459d-9269-d0ca177e5697.png in length |

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| **D.** | The side of a square with an area of 10 square units |

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| **23.** | **The figure below represents a square with an area of 21 square inches.**/files/assess_files/2a8c6e42-fca6-496b-ad1f-ee98874713e6/163810.jpg**Which value below represents the side length of this square, in inches?** |
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| **A.** | /files/assess_files/2b5d5860-86bb-4746-ab3a-81454c48582b/e1c8f933-9d3a-4410-8773-658b6067948f.png |

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| **B.** | /files/assess_files/ec755fd2-9164-4ddd-8670-6c20457f271e/381c2bff-7973-459b-aee2-6af1ae934d23.png |

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| **C.** | /files/assess_files/455bdd87-213d-4926-b296-ca8330cba8bf/9399f3b2-6c2c-4b6c-a22a-8780566fc032.png |

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| **D.** | /files/assess_files/dfc48af9-1136-4509-94ca-021362dae698/9158389d-1321-46e9-9549-0fdfb970ce42.png |

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| **24.** | **The figure below models a square with an area of 121 square meters.**/files/assess_files/2a8c6e42-fca6-496b-ad1f-ee98874713e6/163815.jpg**Which expression BEST represents the length, in meters, of each side of the square?** |
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|   |

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| --- | --- |
| **A.** | /files/assess_files/12555dcb-034e-49c0-93e2-ec38622c718e/652ba79f-b9a3-44c1-984c-8e7a37f252ba.png |

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| **B.** | /files/assess_files/2b3980b8-ca85-436e-88f3-e509f983d52a/6050bcff-50cf-43ca-8fc5-fa639fdcc27c.png |

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| **C.** | /files/assess_files/fa476ee7-0d3c-4ef6-b803-5f0f919ad68d/557c8208-ebc2-410b-8c79-45306309a061.png |

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| --- | --- |
| **D.** | /files/assess_files/8bfd6b0c-a47b-4478-91b5-6e847fd8377e/5bb8949d-8eee-40fa-b746-04684fb954fc.png |

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| **25.** | **Which value represents the square root of the number of squares in the array below?**/files/assess_files/d66df947-ed44-4d15-8e3e-93bb12797629/161076.jpg |
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| --- | --- |
| **A.** | 5 |

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| **B.** | 9 |

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| --- | --- |
| **C.** | 20 |

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| **D.** | 25 |

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| **26.** | **Riya wants to paint a wall in her crafting room. She measures the length and the width of the wall and finds that it is a square and that the area of the wall is 81 square feet. What is the length of Riya’s wall?** |
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| **A.** | 4.5 feet |

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| **B.** | 8.1 feet |

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| **C.** | 9.0 feet |

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| **D.** | 20.25 feet |

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| **27.** | **Given** /files/assess_files/b5c8feaf-e0f8-435c-84ed-f0fb88ee8be4/bd55af05-21df-408b-9c9f-747af31a354b.png **which statement is true?** |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/f2277014-ad9e-4f30-aaed-dedd5d98b42f/9f373e4d-a89e-4812-aeb0-e2c6bcdd3bd0.png |

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| **B.** | /files/assess_files/7ac4153a-2402-47f4-b12b-3f1145510a93/ff74c63b-1bc8-4764-85f1-7bd0c8312d87.png |

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| --- | --- |
| **C.** | /files/assess_files/1c15ed23-7859-40a1-8d33-bf6ab08f3a38/db8c1652-0061-407b-b9d8-7ee8b2f588f5.png |

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| **D.** | /files/assess_files/63f6ce49-8391-479c-ba90-804b35ea28cf/566b9470-9c95-4dae-a0e1-e03901f41dd9.png |

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| **28.** | **Given** /files/assess_files/055e7d29-bbef-41a1-ba6a-80e4d4cb0a2e/0baff850-f582-41c3-8b91-cb37ff503991.png **which statement is true?** |
|  |
|   |

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| --- | --- |
| **A.** | /files/assess_files/27da1e10-14aa-4f8f-8f6d-2a7be1a615f3/949d268d-a535-44fd-9681-82fa2e8491ae.png |

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| --- | --- |
| **B.** | /files/assess_files/a1434219-f5d1-4328-92ef-599fb0220417/1e71b994-33e4-4bf4-bc75-0ec50a589f9f.png |

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| **C.** | 25 is the area of a square whose side has length 5. |

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| **D.** | 25 is the perimeter of a square whose side has length 5. |

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| **29.** | **Given** /files/assess_files/05f0d493-c91f-41f9-acf1-63cc4c106a0e/d748c526-a1c0-4a7a-aaaa-94303d99cc96.png **which of the following statements is true?** |
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| --- | --- |
| **A.** | /files/assess_files/b59b0e07-2410-4373-bd0e-60863e7a2d7a/c830ccb9-0361-400f-8794-fb0935056055.png |

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| **B.** | /files/assess_files/09e07196-8a42-448f-af96-981b3eaa570f/3084e6f4-98f3-4306-9abc-6bcc7b4ae62d.png |

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| **C.** | 7 is the length of the side of a square whose area is 49. |

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| **D.** | 7 is the length of the side of a square whose perimeter is 49. |

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| **30.** | **Which statement is justified by** /files/assess_files/090b76a7-b20f-4277-bf2e-4f75a862d063/feb64c03-87af-443f-996c-397c3a97eac2.png |
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| **A.** | 14 is a perfect square. |

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| **B.** | 196 is a perfect square. |

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| **C.** | /files/assess_files/5103f1d8-5ac2-441e-8f40-298db9f9553d/526a512a-7f9d-4bf0-983a-9304ac63b9e0.png |

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| **D.** | /files/assess_files/4e1972aa-7717-4cb9-b36f-eaa18d239514/67581edb-3f73-4027-86b6-8f9e018ec1cf.png |

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| **31.** | **Marsha cut out a square piece of fabric with an area of 32 square feet. Which expression could be used to find the side length of the fabric?** |
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| **A.** | /files/assess_files/9a9e2510-c969-40fa-83f0-33d37157009c/ae33c67b-9f9c-4c4e-8931-3563083d89ae.png |

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| **B.** | /files/assess_files/df079873-844f-4a4b-81ca-efe823406e51/a6f44195-17d2-49fe-914f-3e041a2d4464.png |

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| --- | --- |
| **C.** | /files/assess_files/cf263def-e510-41c3-a67c-b4fd69c61cbb/a0f4c9a9-7366-4bc7-888d-38df75f97bdd.png |

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| --- | --- |
| **D.** | /files/assess_files/715ecdac-2e3c-4fcc-8126-e4f37094066d/54af3294-afe5-46d5-9653-80b59bfe2d75.png |

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| **32.** | **If** /files/assess_files/8b29da33-f796-4ef1-b669-0e04ead554b6/ddb57c6c-5f5e-4e9c-a060-fbda5ea68331.png **which statement is true?** |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/a4a688bc-4cbb-437e-ba2b-5f5838f3b46d/21098f56-8d73-4d75-9d6f-7e141cc0ac97.png |

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| **B.** | /files/assess_files/6c67a66f-4bd4-4896-b328-22c2bcf87b9d/daf63806-9961-45c4-857f-ca4d9731d52c.png |

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| **C.** | /files/assess_files/d741d994-7527-4768-a372-8fbda6f2e653/dc133e96-f7d5-41f8-af82-1f02fdef5a21.png |

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| **D.** | /files/assess_files/2a9a884e-2107-4e56-bf60-04075e4a32a4/86a797f1-00fb-4975-8dd7-6a95c34a518f.png |

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| **33.** | **The side lengths of four squares are represented in two different ways in the table below.**/files/assess_files/670189db-bc80-4647-9ac2-3d826aaae7c4/163943.jpg**What is another way to represent the side length of a square with a side length of 11 units?** |
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|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/ced857ad-cb65-4082-a221-613215587b05/9449f2e1-4a4a-4758-b8db-9ff92ac4f84a.png |

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| **B.** | /files/assess_files/30cc2e8e-f726-4f76-8dcc-dc4eb1bbb393/5bae852b-58c3-44c4-a0fb-d0a1f9bf9783.png |

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| **C.** | /files/assess_files/0a991281-63ed-4730-a930-8efda8807370/3eaed917-41e4-4ecb-af17-4e333ffccb39.png |

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| **D.** | /files/assess_files/6ee98ceb-d338-437f-a2c7-2f8dc5ea8ed1/3ed7b052-b0b4-4375-9d63-e30bc9f8da83.png |

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| **34.** | Which choice is both the square of an integer and the cube of an integer? |
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| **A.** | 121 |

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| --- | --- |
| **B.** | 100 |

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| --- | --- |
| **C.** | 64 |

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| --- | --- |
| **D.** | 16 |

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| **35.** | A square has an area of 289 in2. What is the side length of the square? |
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| **A.** | 7 in. |

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| **B.** | 9 in. |

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| **C.** | 13 in. |

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| **D.** | 17 in. |

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| **36.** | What is the positive value of *x* in the equation /files/assess_files/325c6f36-bebf-4396-ab28-fb0d808a2c55/f1d2fcf9-b18d-4d3f-b0a7-646963839240.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/c7fcad83-ba6e-4073-80e7-388f7cecfb24/bc95dac8-ee18-442f-8fc8-a5980653ecbc.png |

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| --- | --- |
| **B.** | /files/assess_files/1b2ec003-1f1b-43ef-b5c5-2dbdd82b81e0/c7c30931-c10d-42de-8475-dc9107c9f473.png |

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| **C.** | /files/assess_files/50dfb6dc-8484-4ba3-be47-1e8a7aa19a6d/f6d0de3c-5661-433f-bf1e-cabd2481089e.png |

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| **D.** | /files/assess_files/857093ad-9f2c-45c8-9078-4f9527567533/6c3a8296-d996-48a5-91f0-2a73f6f91964.png |

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| **37.** | A square has an area of 0.49 square inches. What is the perimeter of the square? |
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| --- | --- |
| **A.** | 0.07 inch |

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| --- | --- |
| **B.** | 0.28 inch |

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| --- | --- |
| **C.** | 0.7 inch |

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| --- | --- |
| **D.** | 2.8 inches |

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| **38.** | What is the value of *x* in the equation *x*2 = 1.21? |
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| --- | --- |
| **A.** | 0.0605 |

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| --- | --- |
| **B.** | 0.11 |

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| --- | --- |
| **C.** | 0.605 |

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| **D.** | 1.1 |

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| **39.** | A cube has a volume of 343 cm3. What is the total surface area of the cube? |
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| --- | --- |
| **A.** | 49 cm2 |

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| --- | --- |
| **B.** | 98 cm2 |

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| **C.** | 147 cm2 |

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| **D.** | 294 cm2 |

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| **40.** | A square has an area of 0.49 square inches. What is the length of one side of the square? |
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| --- | --- |
| **A.** | 7.00 inches |

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| **B.** | 2.50 inches |

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| --- | --- |
| **C.** | 0.70 inch |

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| --- | --- |
| **D.** | 0.25 inch |

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| **41.** | A square has an area of 64 square centimeters. What is the perimeter of the square? |
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| --- | --- |
| **A.** | 8 centimeters |

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| --- | --- |
| **B.** | 16 centimeters |

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| --- | --- |
| **C.** | 32 centimeters |

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| --- | --- |
| **D.** | 64 centimeters |

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| --- | --- |
| **42.** | What is the value of *x* in the equation *x* = /files/assess_files/af3d931e-6d86-4b63-84a4-049e7041adcb/da6708e8-df11-4d3d-a048-75e9dd691185.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/47b2e3f1-fa32-468c-8d3d-7f733867e5dc/11bed314-7922-4379-a504-e00a86c81b92.png |

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|   |

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| --- | --- |
| **B.** | /files/assess_files/76b5050c-a3fd-4e65-8266-76093352517f/c34106f6-1399-4479-817c-602691ba4fae.png |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | /files/assess_files/c3abc632-43c3-49dc-a915-fbae9c5dec0f/fd84ab18-ffc0-4281-a065-9df5ab3dd7a1.png |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | /files/assess_files/bfa601c7-9772-4a51-ad54-8385388b8802/8bcfe2fd-1239-4cec-9d5e-a2d5589c7532.png |

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| **43.** | A square has an area of 81 square inches. What is the perimeter of the square? |
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| --- | --- |
| **A.** | 40 inches |

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| --- | --- |
| **B.** | 36 inches |

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| --- | --- |
| **C.** | 20 inches |

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| --- | --- |
| **D.** | 9 inches |

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| **44.** | What is the value of /files/assess_files/f8f3bd3f-ca0f-4fc0-9659-2d44ba20196b/9ee6d462-dcfc-4083-a57b-63afa03bb4f6.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 108 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 72 |

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|  |  |
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|  |  |
| --- | --- |
| **C.** | 15 |

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|  |  |
| --- | --- |
| **D.** | 6 |

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| --- | --- |
| **45.** | A cube has a volume of /files/assess_files/dafcb40e-d635-4221-96b9-3d5d4601a7cd/acca77f0-9228-41ad-ac61-0b324d596671.png cm3. What is the area of one side of the cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/605b4d39-ec02-47ef-b457-69ab4de958c3/692ec5be-6b97-4e64-8650-a5b07b59d265.png cm2 |

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|  |  |
|   |

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| --- | --- |
| **B.** | /files/assess_files/43a76dc1-e2a2-4fc6-9b53-8950884fdf87/abfecccd-b830-435a-9972-12757e43dcf5.png cm2 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | /files/assess_files/5dd5a441-602a-49eb-8ec8-938ab623a69b/8d1cc2d1-61fb-4d58-8aea-de711627ff91.png cm2 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | /files/assess_files/41d81322-3bd3-447e-a067-910d84d95d2d/4c2a3ba7-329e-4348-bf37-c16ae599cf2c.png cm2 |

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|  |  |
|   |   |

|  |  |
| --- | --- |
| **46.** | What is the value of *g* in the equation *g*2= 1.21? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 0.11 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 0.605 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 1.1 |

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|   |

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| --- | --- |
| **D.** | 6.05 |

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| **47.** | A square has an area of 225 ft2. What is the perimeter of the square? |
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| --- | --- |
| **A.** | 15 ft |

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|   |

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| --- | --- |
| **B.** | 25 ft |

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|   |

|  |  |
| --- | --- |
| **C.** | 60 ft |

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|   |

|  |  |
| --- | --- |
| **D.** | 100 ft |

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| --- | --- |
| **48.** | A cube has a volume of 27 cm3. What is the length of one edge of the cube? |
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|   |

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| --- | --- |
| **A.** | 3 cm |

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|   |

|  |  |
| --- | --- |
| **B.** | 5 cm |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 9 cm |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 13.5 cm |

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| --- | --- |
| **49.** | A cube has a volume of 8 cm3. What is the perimeter of one face of the cube? |
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|   |

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| --- | --- |
| **A.** | 2 cm |

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|   |

|  |  |
| --- | --- |
| **B.** | 4 cm |

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|   |

|  |  |
| --- | --- |
| **C.** | 8 cm |

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|  |  |
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|  |  |
| --- | --- |
| **D.** | 16 cm |

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| --- | --- |
| **50.** | The volume of a cube is 343 cubic inches. What is the length of one side of this cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 6.4 inches |

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|   |

|  |  |
| --- | --- |
| **B.** | 7 inches |

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|   |

|  |  |
| --- | --- |
| **C.** | 7.6 inches |

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|   |

|  |  |
| --- | --- |
| **D.** | 8 inches |

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|  |  |
|   |   |

|  |  |
| --- | --- |
| **51.** | Which could be the value of *x* in the equation /files/assess_files/2dd64d7f-8692-4419-9870-76fa55a890ba/4c7bf9e9-bcaf-41a4-a76b-251ba6fee227.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/68247bda-1a03-45a0-8c96-30fe1ed6f904/74595a43-9ae7-45d5-9231-4f304f20e62c.png |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | /files/assess_files/fb8cd884-8c06-4767-955e-db4fcf76d782/95918911-97bd-481e-a260-a2065baccfe5.png |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | /files/assess_files/01ab68d5-3b03-4643-b1e7-4e899a5c6d7d/1df5c07a-0590-42fe-8a0a-9ac639b3fe41.png |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | /files/assess_files/cd98c64a-f735-48c3-92c0-acd1e27a9e02/b1787f4a-bd6e-40fb-b755-badee51cf116.png |

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| --- | --- |
| **52.** | A cube has a volume of 343 cm3. What is the area of one face of the cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 7 cm2 |

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|   |

|  |  |
| --- | --- |
| **B.** | 14 cm2 |

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|   |

|  |  |
| --- | --- |
| **C.** | 19 cm2 |

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|   |

|  |  |
| --- | --- |
| **D.** | 49 cm2 |

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| --- | --- |
| **53.** | A cube has a volume of 64 cm3. What is the surface area of the cube? |
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|   |

|  |  |
| --- | --- |
| **A.** | 64 cm2 |

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|   |

|  |  |
| --- | --- |
| **B.** | 96 cm2 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 192 cm2 |

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|   |

|  |  |
| --- | --- |
| **D.** | 384 cm2 |

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| **54.** | What is the value of *x* in the equation *x*2 = 0.0064? |
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|   |

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| --- | --- |
| **A.** | 0.8 |

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| --- | --- |
| **B.** | 0.08 |

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|   |

|  |  |
| --- | --- |
| **C.** | 0.008 |

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|   |

|  |  |
| --- | --- |
| **D.** | 0.0008 |

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| --- | --- |
| **55.** | What is the solution to the equation 2*x*3 = 686? |
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|   |

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| --- | --- |
| **A.** | *x* = 4.4 |

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|   |

|  |  |
| --- | --- |
| **B.** | *x* = 7.0 |

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|   |

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| --- | --- |
| **C.** | *x* = 18.5 |

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|   |

|  |  |
| --- | --- |
| **D.** | *x* = 26.0 |

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| **56.** | What is the value of *x* in the equation *x*3 + 2 = 10? |
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| --- | --- |
| **A.** | 2 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 3 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 4 |

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|   |

|  |  |
| --- | --- |
| **D.** | 5 |

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|   |   |

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| --- | --- |
| **57.** | What is the value /files/assess_files/a03c5db4-320a-4eb0-83db-c5dc155b6540/54648760-e530-4894-99b9-0ec1eafa76a1.png |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 25 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 49 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 121 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 289 |

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| --- | --- |
| **58.** | The area of a square is 100 cm2. What is the length of a side of the square? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 50 cm |

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|   |

|  |  |
| --- | --- |
| **B.** | 25 cm |

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|   |

|  |  |
| --- | --- |
| **C.** | 20 cm |

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|   |

|  |  |
| --- | --- |
| **D.** | 10 cm |

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|   |   |

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| --- | --- |
| **59.** | What is the value of /files/assess_files/276c7091-ac0d-4052-8abd-82d33090a38e/778672f0-374f-451d-be11-8e4ee6641fe0.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 40 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 80 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 160 |

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|  |  |
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|  |  |
| --- | --- |
| **D.** | 200 |

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| --- | --- |
| **60.** | Which choice is both a perfect square and a perfect cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/d6c440c4-65bb-431d-8ff1-a41b0c788f8b/96db8aa2-f0ab-4a57-9d21-4d0eb824a5fa.png |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | /files/assess_files/831dd15b-4a0e-4316-81c3-be66d8d83f85/85905334-3ac5-4233-98eb-481a7a294621.png |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | /files/assess_files/a947a8a9-8ab3-4bdd-9ff3-38eb6e836959/7507a6e2-a97c-4ec5-a745-01384418d8a8.png |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | /files/assess_files/439944c6-a4a1-4a17-8b56-4ec90701b4a3/fb19c836-a686-451b-8075-50eda99d1d36.png |

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|  |  |
|   |   |

|  |  |
| --- | --- |
| **61.** | Brian has two cubes. * The first cube has a volume of 125 cm3.
* The second cube has a volume of 343 cm3.

 What is the difference in the area of one face of the second cube and the area of one face of the first cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 2 cm2 |

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|   |

|  |  |
| --- | --- |
| **B.** | 24 cm2 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 49 cm2 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 218 cm2 |

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|   |   |

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| **62.** | A cube has a volume of 125 cubic units. The expression 2*x* – 15 represents the edge length, in units, of the cube. What is the value of *x*? |
|  |
|   |

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| --- | --- |
| **A.** | 5 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 10 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 15 |

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|  |  |
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|  |  |
| --- | --- |
| **D.** | 20 |

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| **63.** | A square has an area of 144 square feet. A second square has a side length that is 2 times the side length of the first square. What is the side length of the second square? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 12 feet |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 24 feet |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 36 feet |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 72 feet |

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|   |   |

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| --- | --- |
| **64.** | What is the solution to the equation /files/assess_files/8e17a496-f007-4d84-9b6c-48981f9a55e3/45999f17-1239-41c5-9370-760d0cbcf766.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | *x* = 25 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | *x* = 29 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | *x* = 33 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | *x* = 49 |

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|   |   |

|  |  |
| --- | --- |
| **65.** | If *x*2 = 256, what is the value of /files/assess_files/3e4f513a-cddb-4a07-aa3e-a50c6a7db75b/44cd9a6e-b4d6-402b-b391-a129918af65f.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 4 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 16 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 128 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 256 |

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| --- | --- |
| **66.** | A square has an area of 144 square inches. What is the length of one side of the square? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 36 inches |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 18 inches |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 12 inches |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 3 inches |

 |
|  |  |
|   |   |

|  |  |
| --- | --- |
| **67.** | What is the value of /files/assess_files/66396e84-4daa-435e-a73e-88b39605103c/8b9d2978-f614-42de-8fa8-41ed57dd5a10.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 2.3 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 3.5 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 4 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 8 |

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|  |  |
|   |   |

|  |  |
| --- | --- |
| **68.** | Mr. Waltz calculated the volume of two cubes.* Cube J had a volume of 216 cm3.
* Cube K had a volume of 64 cm3.

 What is the difference in the measures of the side lengths of cube J and cube K? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 2 cm |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 7 cm |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 76 cm |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 152 cm |

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|   |   |

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| --- | --- |
| **69.** | A cube has a volume of /files/assess_files/01ac8458-6ca0-455d-afc1-092dd03a1d25/03239d22-4b53-4650-8a38-b74546389a2c.png ft3. What is the perimeter for one face of the cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/1218e484-54a4-45db-9510-0415949d27d6/59ed554e-1b5c-494b-b836-00c2ed1ec239.png ft |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | /files/assess_files/3ee9b05d-ee09-45ab-8655-af62724d5346/1894d987-a239-44ba-8564-9680cebb1489.png ft |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | /files/assess_files/02f383af-9718-46f9-8fa8-467b1e7cf091/a850d0b9-3041-41d7-afb2-0b20d50c091f.png ft |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 1 ft |

 |
|  |  |
|   |   |

|  |  |
| --- | --- |
| **70.** | What is the value of *x* in the equation 64*x*2 = 4? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 8 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 4 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | /files/assess_files/57e7c7a8-ad63-4fd8-9ce5-eb6ff4414b8e/6c65bf60-2c6a-4655-a54e-1796448bf1ea.png |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | /files/assess_files/beef6208-2f96-42a0-9226-e49107c350e6/baa92b17-a4bd-4f11-b36b-246325e727af.png |

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|  |  |
|   |   |

|  |  |
| --- | --- |
| **71.** | Which value of *x* satisfies the equation *x*3 = 27? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 3 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 9 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 24 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 81 |

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|   |   |

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| --- | --- |
| **72.** | What is the value of *x* in the equation *x*2 = 169? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | *x* = 12.00 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | *x* = 13.00 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | *x* = 42.25 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | *x* = 84.50 |

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|   |   |

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| --- | --- |
| **73.** | A cube has a volume of 27 cm3. The side lengths of the cube are doubled. What is the volume of the new cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 6 cm3 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 18 cm3 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 91 cm3 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 216 cm3 |

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|  |  |
|   |   |

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| --- | --- |
| **74.** | The area of each face of a cube is 25 ft2. What is the volume of the cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 5 ft3 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 125 ft3 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 625 ft3 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 3,125 ft3 |

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|   |   |

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| --- | --- |
| **75.** | Which is the value of *x* in the equation *x*2 = 400? |
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|   |

|  |  |
| --- | --- |
| **A.** | 20 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 100 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 200 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 800 |

 |
|  |  |
|   |   |

|  |  |
| --- | --- |
| **76.** | What is the value of /files/assess_files/1eea9f70-db9d-4581-a6ea-bf33636b80e6/5a2a676a-933d-492d-b91f-e2a661e02f76.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 0.27 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 0.405 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 0.9 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 1.62 |

 |
|  |  |
|   |   |

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| --- | --- |
| **77.** | What is the value of /files/assess_files/6f6075a4-5edb-4168-8e57-8c560afb2bdd/e8744c09-c459-48a9-a551-a7749082f129.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 12 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 18 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 36 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 72 |

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|  |  |
|   |   |

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| --- | --- |
| **78.** | A cube has a volume of 216 cm3. What is the side length of the cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 4 cm |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 6 cm |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 15 cm |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 72 cm |

 |
|  |  |
|   |   |

|  |  |
| --- | --- |
| **79.** | What is the value of  /files/assess_files/d58c2a18-2b56-47bd-839d-2b35f9702647/23c338f4-fe2d-46f6-98cb-4dd9a8d38301.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 1,296 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 72 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 18 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 6 |

 |
|  |  |
|   |   |

|  |  |
| --- | --- |
| **80.** | What is the value of /files/assess_files/f75a2b95-5976-40ee-85ec-868e5e1e060f/76559a2f-2656-482d-8c73-58d9610f1bf7.png? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 0.09 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 0.03 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 0.3 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 0.9 |

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|  |  |
|   |   |

|  |  |
| --- | --- |
| **81.** | A square has an area of 64 square units. A cube has a volume of 64 cubic units. What is the difference in the side length of the square and the length of one edge of the cube? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 0 units |

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|  |  |
|   |

|  |  |
| --- | --- |
| **B.** | 2 units |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **C.** | 4 units |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 8 units |

 |
|  |  |
|   |   |

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| **82.** | What is the value of /files/assess_files/ba5a5964-8753-4334-9ee4-fc00a46f4b86/0f0de97b-a060-4d7f-8e1b-583e3839b6c5.png? |
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| **A.** | 0.07 |

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| **B.** | 0.114 |

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| **C.** | 0.7 |

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| **D.** | 1.029 |

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| **83.** | The area of a square classroom is 144 ft2. How long is one side of the classroom? |
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| **A.** | 288 ft |

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| **B.** | 72 ft    |

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| **C.** | 36 ft |

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| **D.** | 12 ft |

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| **84.** | What is the value of /files/assess_files/45b2962c-bbf3-48ca-a509-362f12dbe80b/a12e06b6-9dbc-4dae-9223-50c02cc8548e.png? |
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| **A.** | 0.08 |

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| **B.** | 0.04 |

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| **C.** | 0.4 |

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| **D.** | 0.8 |

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| **85.** | A square garden has an area of 64 ft2. If the length of the garden is increased by 3 ft and the width is increased by 2 ft, what is the area of the new rectangular garden? |
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| **A.** | 69 ft2 |

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| **B.** | 110 ft2 |

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| **C.** | 121 ft2 |

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| **D.** | 169 ft2 |

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| **86.** | A square-shaped placemat has an area of 169 in.2What is the length of one side of the placemat? |
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| **A.** | 13 in. |

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| **B.** | 16 in. |

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| **C.** | 84.5 in. |

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| **D.** | 338 in. |

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| **87.** | What is the value of *x* in the equation 4*x*2 = 64? |
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| **A.** | 2 |

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| **B.** | 4 |

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| --- | --- |
| **C.** | 8 |

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| **D.** | 16 |

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| **88.** | Which expression equals 4? |
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| **A.** | /files/assess_files/d6a8b022-e02c-4262-bd99-b052364d125b/9ba1e21e-9a56-491b-aaf9-55dbff3466f1.png |

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| **B.** | /files/assess_files/8ae82251-6446-42d6-933b-d313018b7f11/c60bef79-e847-4cfb-8833-725eb0b849e5.png |

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| **C.** | /files/assess_files/c205d9d7-d648-4f33-8003-07de568a310a/1eafc614-4a20-4a8a-a0ad-7f93047df0ff.png |

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| **D.** | /files/assess_files/e92cf383-c2e5-4e15-b45f-983d464f49c5/b05f24f1-f269-4574-b6a9-80e217f3b05a.png |

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| **89.** | What is the value of /files/assess_files/4ec2c5f5-94eb-40f4-bee6-277d325fa147/2f56dcae-add7-4aef-9343-e0800ffe54dc.png? |
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| **A.** | /files/assess_files/54dfbee0-5e87-4323-b8f5-88ac66698ab3/7842f924-5f7c-4d98-bf5b-231ad69da2a9.png |

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| **B.** | /files/assess_files/e95bf044-7b91-4286-a018-b07ebe5721f6/f4e74cc8-688b-4cb3-8e7e-740f77fcb6d0.png |

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| **C.** | /files/assess_files/29be5cb6-0095-4fa4-a057-0d9c2bd7447d/53260841-0290-4e8d-a128-a96587c8899a.png |

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| **D.** | /files/assess_files/d8c84653-bd65-4bc5-b4bb-b43f1d84aea7/de24e2a6-e8b8-454f-9f1f-ab133d4276ed.png |

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| **90.** | Laura makes an ice cube having a volume of /files/assess_files/0d5c8db2-6e8d-4540-ab60-c4b316741f45/5b36dbe8-78e6-4d5c-9ac6-a8dd37fcf97a.png cubic inch. What is the side length of the ice cube? |
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| **A.** | /files/assess_files/e433102f-dd28-4fc1-a1a8-671d5ab52747/1066d95e-4710-4583-aa7c-3718a1a82dac.png  in. |

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| **B.** | /files/assess_files/bcc1b66c-618c-4362-bfbe-385df2916bf7/3d7607cc-0869-40c8-ab6a-43ba74963204.png  in. |

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| **C.** | /files/assess_files/de0e1995-8e59-481f-acf7-36c91e9fdd48/b4253697-388d-4259-a29b-20ed35adbc2b.png in. |

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| **D.** | /files/assess_files/3f81b234-e71d-418a-84f2-085474319b6e/2034e2a0-5ff3-4d00-ab3e-0840ea506c01.png in. |

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| **91.** | The volume of a cube is 125 cm3. What is the length of each side of the cube? |
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| **A.** | 5 cm |

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| **B.** | 11.18 cm |

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| **C.** | 25 cm |

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| **D.** | 31.25 cm |

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| **92.** | A cube has a volume of 125 cubic inches. What is the length of one of its edges? |
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| **A.** | 5 inches |

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| **B.** | 10 inches |

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| **C.** | 25 inches |

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| **D.** | 60 inches |

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| **93.** | The area of a square is 196 in.2 What is the length of one side of the square? |
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| **A.** | 6 in. |

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| **B.** | 14 in. |

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| **C.** | 49 in. |

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| **D.** | 98 in. |

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| **94.** | What is the value of /files/assess_files/c8e185f3-89d6-49a2-ac97-7531745f4d5c/bdc20cbc-6caa-4c99-9da8-754483f8db2e.png ? |
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| **A.** | /files/assess_files/82c6e06d-b2df-4083-a413-16b03f50d785/0e90d147-c7ea-4041-a429-48d9e2a216ba.png |

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| **B.** | /files/assess_files/3402d734-fc8b-4430-bb82-efe551d83e3e/835746b5-7de3-471f-ad3a-8bb179c7a44a.png |

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| **C.** | /files/assess_files/053e64f9-9395-49ff-b221-835169665503/5558a723-759f-4ef7-a195-710f50ec7397.png |

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| **D.** | /files/assess_files/ba04e217-1f73-40bd-bd78-8aa2c919f83c/b74604e0-dbd4-47a2-b2bd-94bd8adc291f.png |

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| **95.** | What is the value of /files/assess_files/eefb84e5-49c9-47a3-9053-613b7554ed61/7960135d-a65c-4627-bd08-4b1114c2ac2b.png? |
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| **A.** | /files/assess_files/de155a3d-c712-4f24-9d76-c2a47673dd0c/f5c4fdfa-e881-48ca-86f3-78e725afcc02.png |

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| **B.** | /files/assess_files/de3e8e6a-27f7-41cc-bb59-2693dcef00d8/51e3da00-2dd5-4a56-9217-4bdbab30fd32.png |

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| **C.** | /files/assess_files/264223b1-4461-4934-89f3-86a92e7a86b6/49679aa9-104a-415e-bb7d-d9a734687761.png |

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| **D.** | /files/assess_files/ce6db744-4808-46b0-bee2-5ed97c3b1132/2d6181f2-6159-443f-bdac-5d82e770ea05.png |

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| **96.** | What is the value of /files/assess_files/840b671c-1225-4a9d-b753-767f6d88ecd4/bde87fd3-fc24-4589-851b-d079824e20e4.png ? |
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| --- | --- |
| **A.** | /files/assess_files/dee38dfc-bbc4-4fbc-baa1-650113058688/2375693c-ea84-4e78-b145-b63cb1abba9f.png |

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| **B.** | /files/assess_files/d403073d-eec7-4877-aef9-08911dc0015f/c20276ab-24f3-4242-b96d-d62135f8f833.png |

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| **C.** | /files/assess_files/0513083b-9aba-43ff-a4f6-ea0e131df9d4/f1ba565d-316e-4418-ba26-fcc32cc898cb.png |

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| **D.** | /files/assess_files/5c65d479-6a05-47a0-9699-798693b38126/37976146-2ac9-4999-bab8-b6f266eefe73.png |

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| **97.** | The area of a square garden is 36 ft2. What is the perimeter of the garden? |
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| --- | --- |
| **A.** | 6 ft |

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| --- | --- |
| **B.** | 9 ft |

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| **C.** | 18 ft |

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| **D.** | 24 ft |

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| **98.** | What is the sum of  /files/assess_files/b6db026b-807c-4a06-8fed-5bf1f6e33250/efbad155-5b45-4d66-b596-0cba2ad75fea.png and  /files/assess_files/b6db026b-807c-4a06-8fed-5bf1f6e33250/2338f5ff-2aee-41ef-ad29-aaa1aada05bf.png ? |
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| --- | --- |
| **A.** | 18 |

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| --- | --- |
| **B.** | 26 |

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| --- | --- |
| **C.** | 173 |

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| --- | --- |
| **D.** | 346 |

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| **99.** | What is the value of *x* in the equation *x*2 = 49? |
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| **A.** | 4 |

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| --- | --- |
| **B.** | 7 |

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| --- | --- |
| **C.** | 25 |

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| --- | --- |
| **D.** | 98 |

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| **100.** | Which is the value of *x* in the equation *x*3 = 64? |
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| **A.** | 4 |

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| **B.** | 8 |

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| **C.** | 16 |

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| --- | --- |
| **D.** | 21 |

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| **101.** | What is the value of /files/assess_files/a35cc1a9-d852-4d0b-89e5-d9bf744fcc4f/3485ded7-aa32-47f2-abc6-384c54de3978.png? |
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| **A.** | 0.2 |

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| **B.** | 0.08 |

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| **C.** | 0.02 |

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| **D.** | 0.0016 |

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| **102.** | The area of a square garden is /files/assess_files/93ef5f0f-7d7d-4cd7-bd93-5370d5009ec1/9100da56-6527-4e4a-b230-c4628f70256c.png ft2. What is the length of one side of the garden? |
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| **A.** | 4.5 ft |

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| **B.** | 5.1 ft |

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| **C.** | 10.1 ft |

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| --- | --- |
| **D.** | 10.5 ft |

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| **103.** | What is the value of *x* when 36 = *x*2? |
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| **A.** | 6 |

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| **B.** | 18 |

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| **C.** | 34 |

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| **D.** | 72 |

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| **104.** | What is the value of *x* in the equation /files/assess_files/1f63770f-5fda-4af3-8f82-1956410ef8ba/32381703-4f26-4a01-a69c-fe736ef88bed.png ? |
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| --- | --- |
| **A.** | /files/assess_files/799e82a4-388d-4b55-8344-e920ff7332dd/086d6150-3c41-445b-b948-672197734c61.png |

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| **B.** | /files/assess_files/e209776c-450f-43a3-beb0-5e4ec4c109c6/9e162948-1655-4659-8838-7cf74b178d1b.png |

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| **C.** | /files/assess_files/60abafee-2a95-44f1-ba8f-3cc08cfde49a/b473ea16-4bae-427c-aa3f-2bdbf1249282.png |

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| --- | --- |
| **D.** | /files/assess_files/71ff48d0-7eca-4a41-b03a-a3a08c534a52/77f704f4-2cc2-4d41-833a-f04239e87ab9.png |

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| **105.** | What is the solution to the equation shown below?5*x*2 = 245 |
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| **A.** | /files/assess_files/91e31fa9-5827-4019-b6f4-f47406dac3ee/174440b6-fc46-4a33-b5b1-e047a196699b.png |

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| **B.** | /files/assess_files/eadf5a5f-51a3-4295-83ea-5d5acd534f01/6e42682c-b2a8-44a8-b1c4-cdd70968e808.png |

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| **C.** | /files/assess_files/6eda30da-181f-42f9-a9f7-3da647c1f1f8/43b9b313-a67c-48d4-9739-9d913866b2f9.png |

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| --- | --- |
| **D.** | /files/assess_files/7f7b2095-2ec8-4491-81ab-75f89ca64637/04f8e426-7a8e-4247-9002-6ad0b6776493.png |

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| **106.** | What is the value of /files/assess_files/2cc0e533-156d-4b09-8069-3548f3e3f5d2/493780c6-e580-4a47-97ab-19d6d77dcb33.png? |
|  |
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| --- | --- |
| **A.** | /files/assess_files/e8726e31-a344-4344-b6af-f6fe7648ec9d/479b11d9-4064-4d3c-98e0-9a58a03cca43.png |

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| --- | --- |
| **B.** | /files/assess_files/738038d5-e1b5-4ac4-805f-39c00e52fea9/37d355b1-703e-47c7-bdfd-93f72765e9b7.png |

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| **C.** | /files/assess_files/8ac9ee02-ea96-4226-b183-d2b8ad8c1d2f/cfc19334-5767-4beb-b059-e7a5903731fc.png |

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| **D.** | /files/assess_files/98e3aec9-624d-4470-8b9b-27cbdc3223cd/09a00940-43c0-488f-b06b-46ad54e582ab.png |

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| **107.** | What is the value of *x* in the equation *x*3 = 343? |
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| **A.** | *x* = 6 |

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| **B.** | *x* = 7 |

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| **C.** | *x* = 57 |

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| **D.** | *x* = 114 |

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| **108.** | A cube has a volume of 27 cubic inches. What is the perimeter of one face of the cube? |
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| **A.** | 3 inches |

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| **B.** | 6 inches |

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| **C.** | 12 inches |

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| **D.** | 27 inches |

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| **109.** | What is the value of *x* in the equation /files/assess_files/bf366d06-e194-4ed6-8f6c-45fc1da07c91/a98b97c7-3087-4b78-8286-45658326da13.png? |
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| **A.** | *x* = /files/assess_files/3f800ea3-42de-45c0-82e5-b8bdfae0c143/7318658b-8162-4cce-818a-a281dce56d7d.png |

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| **B.** | *x =*/files/assess_files/d9d30e30-46fb-4d1e-91e8-0bd65995b404/7539011e-9814-420d-912e-ff82a88d37ed.png |

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| **C.** | *x =*/files/assess_files/c021c190-5885-48ca-96fa-4a7e45bc3ea4/0118f6cc-c791-46f7-9792-906e38378be0.png |

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| **D.** | *x =*/files/assess_files/fdf5db3e-d8f8-4aa1-bf6a-1b91a5bef5af/50e24e54-7239-488a-8c0b-227760866620.png |

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| **110.** | What is the value(s) of *x* in the equation 7*x*3 = 448? |
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| **A.** | 4 |

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| **B.** | ±4 |

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| **C.** | 8 |

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| **D.** | ±8 |

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| **111.** | What is the value of /files/assess_files/0acb72ad-2607-4e43-9c71-17c444eb05f0/cd5b7d6b-6e8f-402e-bb62-f8b886b13e66.png? |
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| **A.** | /files/assess_files/a95f4d4e-1f39-45a1-84a0-7fad08881f04/a35efb8f-8255-42e8-9625-a89658ca8266.png |

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| **B.** | /files/assess_files/7a211b53-0243-4b5a-83cc-b644cf296c2c/7e860130-9849-4593-85df-9ec5ea2794ac.png |

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| **C.** | /files/assess_files/37300e37-b3cd-4c79-a29f-72f944889ed0/33881dfe-74ae-45ea-ad81-8a93e4627050.png |

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| **D.** | /files/assess_files/41b5a003-5331-49c6-924d-710d21fae368/bc7e8f22-7d14-491a-b50e-e8e59d4b8de5.png |

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| **112.** | What is the value(s) of *x* in the equation below?25*x*2 = 16 |
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| **A.** | /files/assess_files/21c50825-958a-4100-b156-5bdc44f8bbbf/b5d7a5f7-a251-4912-a6a2-189fa1ab3fbd.png |

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| **B.** | /files/assess_files/c402e196-ca2b-4454-b096-9f6d69cad50d/2126b0d6-5680-4630-bf77-34e00f943d37.png |

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| **C.** | /files/assess_files/f2c27b36-a5a5-4cfd-a910-9a259d66e392/bfc60e22-98e2-4ae4-965c-d15790ef1a59.png |

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| **D.** | /files/assess_files/efe0a6bd-9511-4949-96c5-23dca0e1996b/7e075306-8cbc-4613-a58f-eda3ede30993.png |

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| **113.** | What is the value of *x* in /files/assess_files/c7d312ff-8187-4751-b78d-80afb039e1cd/31d000bf-037d-4e08-8b54-958eec99e04a.png? |
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| **A.** | /files/assess_files/ae0c4580-437e-4cdb-ad4c-a8c399be359e/7e3a8f23-2704-4c8f-9caf-73cfce3e9dc2.png |

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| **B.** | /files/assess_files/cb326d07-9008-49cd-9f41-0d4a480ff32a/0c2f8a62-5a67-4d5f-b3cf-5c450f2238cd.png |

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| **C.** | /files/assess_files/aba741d9-21d8-4e38-9919-bbc1336c2408/3ef2dac4-4bbb-4ccd-98bf-669a46421ad2.png |

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| **D.** | /files/assess_files/35374a55-8b56-4c51-a617-2334bd477379/0b1ee895-883b-4530-9a8c-14c4778b6932.png |

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| **114.** | If *x*2 = 64, what is the value of /files/assess_files/b36fa6a6-bb89-4389-a4d5-e12ca7ea817f/6225c277-eb85-4143-8aa2-b57c75e4b6c7.png? |
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| **A.** | 2 |

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| **B.** | 4 |

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| **C.** | 8 |

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| **D.** | 16 |

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| **115.** | In the equation /files/assess_files/a9b21bca-5208-4c61-96a9-98af161088e9/image/a01db50f-aaac-4c9a-9288-b2b0017bad50.gifwhat is the value of *x*? |
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| **A.** |   2 |

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| **B.** | /files/assess_files/6b0b7e0c-e0db-4fff-ab2c-55c1d24cbdcd/image/ccedb5e4-e55f-4e05-8d60-7493b5e35949.gif |

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| **C.** |   5 |

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| **D.** |   24 |

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| **116.** | What is the value of the expression/files/assess_files/34730ddc-c968-4691-95cc-510de3466ffc/image/11655237-851b-4291-8ce1-1a564c81646d.gif? |
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| **A.** |   3000 |

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| **B.** |   100 |

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| **C.** |   30 |

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| **D.** |   10 |

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| **117.** | Which equation has an irrational solution? |
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| **A.** | /files/assess_files/c234e2f2-5fe8-4be2-ab56-c1ccfc542505/image/84a1bfe0-bd26-4ec6-82c9-e983e135a766.gif |

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| **B.** | /files/assess_files/1c316f05-f370-4b69-aaf8-7434dd129cbc/image/5748e39e-1467-41d4-b0e5-4545f7b02613.gif |

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| **C.** | /files/assess_files/043570e3-61a8-40a2-8a25-157d64f72e5c/image/986d69f9-8895-49c3-951f-202ab6bf407a.gif |

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| **D.** | /files/assess_files/4bb854b2-50a0-421c-a80b-c89cc9213575/image/7d56bfc4-977c-4086-976e-3ee8b30fed60.gif |

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| **118.** | If /files/assess_files/b54df393-e969-426a-b73d-5636a2924226/image/7b817b89-42d4-4821-91e5-54dd209a3a86.gifthen /files/assess_files/b54df393-e969-426a-b73d-5636a2924226/image/1d62ea3f-3ea3-48e8-b3c6-feca25c5695f.gif or /files/assess_files/b54df393-e969-426a-b73d-5636a2924226/image/cb901008-9c97-4c49-8413-f8369e27765a.gif Which equation shows why this statement is correct? |
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| **A.** | /files/assess_files/6a4fca4c-6247-45ea-89f9-5c39fb98d5d2/image/72b6e4c0-6db5-40ae-9fa3-66176b1307c4.gif |

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| **B.** | /files/assess_files/b9399c76-a96a-4e37-902d-93f66dd30135/image/4554cb2d-3a8b-4539-b34f-69fb6dcc752b.gif |

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| **C.** | /files/assess_files/26adf1d7-4031-4400-b5a6-c2bd79f49663/image/02582c2f-2ef2-445a-af33-00ea92bfb997.gif |

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| **D.** | /files/assess_files/5a269ff7-d936-4f8a-88cc-0ea15e95964f/image/eef93605-208c-4e21-b0cd-8ca4f89ef15a.gif |

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| **119.** | What is the value of /files/assess_files/9b5fd1d1-ed01-4b4e-9386-a3a18e69dd52/image/08f7d09d-03ba-40dc-bdfe-8ad8a5f1537b.gif? |
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| **A.** |   4 |

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| **B.** |   8 |

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| **C.** |   16 |

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| **D.** |   32 |

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| **120.** | Which expression has a value of 10? |
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| **A.** | /files/assess_files/b4050c2c-195f-4a27-a12d-6c2b13ae56be/image/c16872fe-6142-4e5c-bb56-1963353a2fc2.gif |

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| **B.** | /files/assess_files/8e35ce23-e161-443c-8249-56087578ee5a/image/6b099802-8167-42f9-a37f-916eaa2a0fee.gif |

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| **C.** | /files/assess_files/95b8046e-a6ae-4cc4-8499-babbfc006510/image/be699b14-2e5e-4503-8173-63ccfcb8e89c.gif |

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| **D.** | /files/assess_files/fc674336-62d9-4384-9925-5a5d9ba404a1/image/b3d461e0-46f7-4204-8a23-cc6abd01023f.gif |

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| **121.** | What is the value of *z* when/files/assess_files/212b9b3d-6756-42d8-bf3a-38e88e180eba/image/95919fdb-c7b1-44c7-82f4-020b5f7f2fa0.gif? |
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| **A.** | /files/assess_files/a4b2add4-db34-4835-bb4b-73704de6bb34/image/8316d815-26c8-4b5f-927a-5c0de045d535.gif |

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| **B.** | /files/assess_files/179bef12-c97f-4300-b348-f1efa813e8b4/image/d65c5b7d-b041-466c-854a-3491e66e4d64.gif |

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| **C.** | /files/assess_files/75406be4-a0d5-4917-9a05-4c3e1f096ad6/image/8729843a-275c-49b9-9c81-a8302dff1785.gif |

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| **D.** | /files/assess_files/805bbcb3-0a36-40ce-b73a-6f26c228eb0f/image/2bd4a217-32f0-4002-9d52-fa7ee630b002.gif |

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| **122.** | If /files/assess_files/9a332783-107a-4dbc-8842-08dbe23655cd/image/5e53ff9a-05c8-458c-bac0-582eeb3045f7.gif what is a value of *x*? |
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| **A.** | /files/assess_files/80c5a982-5c0e-4272-980a-9d3ebfd904bc/image/53313cdd-9f5b-4e23-b1fe-07735f91f634.gif |

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| **B.** |   3.5 |

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| **C.** | /files/assess_files/2617c72a-d8c3-46fa-b562-232491b560e6/image/1e62d689-3bcf-42eb-b9a0-826c02841281.gif |

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| **D.** |   14  |

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| **123.** | Which statement is true? |
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| **A.** | /files/assess_files/ac441f82-8580-485f-8162-92abd0b8dc12/image/14095761-35ab-47c1-a9cd-2bdb1481f6d2.gifis rational because it can be written as an integer. |

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| **B.** | /files/assess_files/59ddaeec-0548-4e02-96e8-7525a845f717/image/cb0bb593-a9bc-4e94-b227-d65a62274c08.gifis rational because it can be written as /files/assess_files/59ddaeec-0548-4e02-96e8-7525a845f717/image/bf61daee-5269-4596-b7ca-bee1abb137e6.gifor /files/assess_files/59ddaeec-0548-4e02-96e8-7525a845f717/image/dc818909-f8a3-4e82-be53-ce2da4a59e6c.gifwhere *a* and *b* are integers and /files/assess_files/59ddaeec-0548-4e02-96e8-7525a845f717/image/40f082a7-1216-4b97-808e-afec210091e2.gif |

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| **C.** | /files/assess_files/95761264-ae8b-4c4d-bc5a-9f4dfa8faf28/image/26173cb7-43fe-44fb-bd3e-f635206c7e05.gifis irrational because it cannot be written as a terminating decimal. |

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| **D.** | /files/assess_files/87026895-06ea-47cc-865e-ab0aec485aae/image/17b75e87-3611-46b5-a205-8bae0c2c918e.gif is irrational because it cannot be written as /files/assess_files/87026895-06ea-47cc-865e-ab0aec485aae/image/26bbc014-f9f7-4de1-bc7d-a3b0a0b66dc6.gif where *a* and *b* are integers and /files/assess_files/87026895-06ea-47cc-865e-ab0aec485aae/image/3b8e5948-81b3-4620-ab5f-632eb60b1c00.gif |

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| **124.** | What is the solution to /files/assess_files/25067f44-4137-4d35-afeb-e6d122f78cee/image/b675cfe6-9ada-4235-81c0-1d73d03dae8b.gif? |
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| **A.** |   x=−4 or x=4 |

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| **B.** |   x=−8 or x=8 |

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| **C.** |   x=−32 or x=32 |

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| **D.** |   x=−256 or x=256 |

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| **125.** | What is the value of *x* in the equation /files/assess_files/13ea7d73-a185-4055-ac99-8ab05fe74ce5/image/45f68db0-9bdb-44cd-814f-fcf3401de561.gif? |
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| **A.** | /files/assess_files/3942d5cb-3b0a-4513-9927-75193221b300/image/0dbe91ec-7396-4cdf-9a48-e3b453f39f3d.gif |

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| **B.** | /files/assess_files/e616e4e6-f5e1-4b8a-ad92-691c2ec73bde/image/d06d97ec-7c8e-45ef-ae5e-ce89d28e47e0.gif |

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| **C.** | /files/assess_files/0c95c77a-a0a4-4f3b-ad2c-e0abbc265a20/image/7a22d144-b5f3-4090-93da-4b0c69fa343b.gif |

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| **D.** | /files/assess_files/4711197d-68c9-477b-9bd8-4a463903501c/image/78214746-4836-4439-99d6-a2d9c83df1cf.gif |

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| **126.** | Which expression shows the value of *x*in the equation /files/assess_files/75754a7c-bbcd-4985-98a7-1b176b2cc188/images/8223958ca4f86e3b06d8b404ca1fa457.png |
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| **A.** | /files/assess_files/bdb9c924-77fb-4da9-b1c4-6d9e44676975/images/3b70552e287389fe0667d292f77f62d6.png |

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| **B.** | /files/assess_files/be5449e0-33b6-403b-b4fe-72a791b2ffac/images/dd4fcc78403430c593f7c331db680fa7.png |

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| **C.** | /files/assess_files/4da7852c-6612-4824-a910-81ee8c5b1643/images/785e213a1c0b42f98d85aef7af572402.png |

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| **D.** | /files/assess_files/da9c8bde-7885-4516-9215-20bd825eb041/images/9cd7cb752dfd55d93d33a61f72f3a62c.png |

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| **127.** | Tim bought 128 sandbags to completely fill a cube-shaped sandbox. Each bag fills a cubic foot in the sandbox. What is the length, in feet, of one of the sides of the sandbox? |
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| **A.** | /files/assess_files/e5f72f16-c46c-4026-a5e1-74e2fc886e40/images/cf91d25c5e3fa8ed529a3dd0ef8e8e10.png |

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| **B.** | /files/assess_files/c325298e-b7c6-4d80-8da7-28622a908aed/images/22d62ba7f42cb3ed3b016398eb19904b.png |

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| **C.** | /files/assess_files/3b5c6511-2a1a-4414-ad44-ac9dfab3cdcf/images/ce38c8b6397dbd131b6d2d65ecd7252a.png |

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| **D.** | /files/assess_files/a36ca3cb-8060-412a-96bb-35910108fdab/images/a42add6e6e8da2146ba78c6516589a85.png |

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| **128.** | What is the value of *x* in the equation /files/assess_files/8228cfe0-e854-48a4-afa2-4cc2c2c135de/images/c3639a3214481bfccf7bb1e3cec1ab1a.png |
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| **A.** | /files/assess_files/1accf540-e140-42f4-9f4b-03de111c20e4/images/d6f3c7ede264a731f51fe0d8be3447ca.png |

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| **B.** | /files/assess_files/74e85d93-4442-4be5-add1-9690d1069887/images/d008aa9b1f2726b957773276d4b6cfc4.png |

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| **C.** | /files/assess_files/b7842dd0-694c-476c-bddd-bb541ea0c0f1/images/a83a1755346f351cf8271b5455bf53c0.png |

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| **D.** | /files/assess_files/4da718a1-78f8-4c5a-acc7-730238502124/images/950cad666db3c508b07743c063996772.png |

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| **129.** | Which expression has a value that is irrational? |
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| **A.** | /files/assess_files/e41a6eaf-afca-4ac9-ada2-61660f89d844/images/1520ac2c1a394c3c14043aa1df7a681c.png |

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| **B.** | /files/assess_files/cf94c17a-e80e-4e62-9cb0-9da17d4bcbcd/images/e46e101dba238264972e7d01396258e1.png |

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| **C.** | /files/assess_files/8c590e3e-ae2a-4db8-b21b-1ec9e839a372/images/9629c614ba36270a8b1f17d17cd51eee.png |

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| **D.** | /files/assess_files/49cef562-4e04-4c81-9736-0f76f62d6f7c/images/a508b86d29c97a4df7a06c626dee605a.png |

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| **130.** | What is the value of the expression /files/assess_files/43a43562-a852-4822-b554-22dad849c8a0/images/257ffc10becc57dd502edc5473947586.png |
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| **A.** | 72 |

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| **B.** | 27 |

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| **C.** | 8 |

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| **D.** | 6 |

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| **131.** | Which expression represents the value of *x* in the equation below? /files/assess_files/48bb2df6-709d-41f5-a255-72bdf3ca91a4/images/c5a7d56ea40c80134fee33b9745fd0db.png |
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| **A.** | /files/assess_files/f7c01ac6-06d4-4594-9c52-c8038ae513f1/images/c8346835b5a5c406337fe1f335d7b502.png |

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| **B.** | /files/assess_files/af176275-b8ee-4423-9dbf-13ba0d9b7e8e/images/8478af19ed353634cf365a19f859257d.png |

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| **C.** | /files/assess_files/ff2b432c-ecb3-4c4c-bc38-4cec5ca40d04/images/4b12f279ce801a9a7f9c86e009ab8893.png |

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| **D.** | /files/assess_files/b73cbbb7-b05e-4919-9281-e137e71d2300/images/b9cdcc980cb869e2e3c0efbcdfddcfe2.png |

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| **132.** | Which expression could represent the value of *x* in the equation below?  /files/assess_files/0b8d4e13-ce5f-4603-b6dd-38f43b2ef85e/images/2b44fafa140effdc0c2eb878b3d69035.png |
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| **A.** | /files/assess_files/501877d4-d938-4f3c-a13a-a2899932643c/images/0da4caa94f24b1993e0f072175c4db9f.png |

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| **B.** | /files/assess_files/ac0376fb-51c1-42c3-8035-a9c708713041/images/90c00c77a68747ff2b8e07c7612411cd.png |

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| **C.** | /files/assess_files/5f7246ef-b4e1-425c-a919-826b9567ce13/images/dd81e5e71fa0c91e43d7a8d25311b790.png |

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| **D.** | /files/assess_files/322580b0-5a11-4837-b782-596c7a968674/images/7b6cd82f26d883bfb63430c11af1a9aa.png |

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| **133.** | The volume of a cube is 125 cubic centimeters. How many centimeters long is each edge of the cube? |
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| **A.** | 5 centimeters |

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| **B.** | 11 centimeters |

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| **C.** | 15 centimeters |

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| **D.** | 42 centimeters |

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| **134.** | An electric company charges its residential customers $0.13 per kWh with a fixed monthly charge of $16. If a customer uses /files/assess_files/e10f7ad1-75ae-4c53-9455-08ed5ebf27f7/images/5f2044b076c34e73f1b7a6a0ac7b127d.png of electricity in a month, which of these functions represents the total monthly bill? |
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| **A.** | /files/assess_files/1905976f-aded-4d1d-ab2c-5a62395c63b7/images/3b69957b0969c59fc47878e7b616e2ae.png |

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| **B.** | /files/assess_files/dba4da48-233c-45f9-9926-5fb19fa32ac7/images/7de0869f51a66e36d6003c3b01f39f83.png |

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| **C.** | /files/assess_files/432c4bc7-ad88-46eb-be84-8c5423653652/images/367351a2e9b808f1902cd77b06910593.png |

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| **D.** | /files/assess_files/eeca1970-2db7-490b-8713-5f37d8474ac8/images/918d6e9a8a383ebb3d18125c9fc51cf3.png |

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| **135.** | The table below shows the value of Henry’s car for each of the first 3 years after it is purchased. The values form a geometric sequence./files/assess_files/6d127c08-1721-4107-a109-8b1e89fe3f37/images/381068c2-28f4-46d5-a21d-55113fb3d535_a360148.gifWhat will be the approximate value of the car in the 10th year? |
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| **A.** | $2,150 |

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| **B.** | $2,680 |

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| **C.** | $5,240 |

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| **D.** | $6,550 |

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