|  |  |
| --- | --- |
| **1.** | **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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| **2.** | **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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|  |  |
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|  |  |
| --- | --- |
| **B.** | 8 |

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

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|  |  |
| --- | --- |
| **D.** | 32 |

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|   |   |

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| **3.** | **What number is** /files/assess_files/442d6259-53f3-4a61-a3a9-c584bad8f9e5/cf280070-2bdb-497e-8a89-4f97d56e850c.png **equivalent to?** |
|  |
|   |

|  |  |
| --- | --- |
| **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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| **4.** | **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?** |
|  |
|   |

|  |  |
| --- | --- |
| **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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|   |   |

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| --- | --- |
| **5.** | **Which number is the square root of 64?** |
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|   |

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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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| **6.** | **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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|  |  |
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|  |  |
| --- | --- |
| **B.** | /files/assess_files/a314faeb-dfcc-4797-9cfc-15ccf9804b81/07450d3b-64da-4b63-a161-8680d0d3c4c6.png |

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|   |

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

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

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|   |   |

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| --- | --- |
| **7.** | **What is the value of** /files/assess_files/871734ff-60f3-442a-be9a-74e64a0031a7/248791e7-f9d7-42a3-a194-d554ffc4a6d8.png |
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|   |

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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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|  |  |
|   |

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

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|  |  |
|   |

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

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|   |   |

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| **8.** | **What is the value of *x* when** /files/assess_files/c03dffb7-3b0b-4b1d-a0b8-813e0f90d3f8/74383983-d72e-42e4-b6de-e3eadccd786f.png |
|  |
|   |

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

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|  |  |
|   |

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

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|  |  |
|   |

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

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

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| **9.** | **What is the value of** /files/assess_files/f0fe5dbc-6345-467d-ba42-86a951125cfa/45f41093-d4f4-4c23-a160-dc955272509f.png |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | 18 |

 |
|  |  |
|   |

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

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|  |  |
|   |

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

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|  |  |
|   |

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

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|   |   |

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| **10.** | **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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| **11.** | **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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|   |

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

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

 |
|  |  |
|   |

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

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|  |  |
|   |

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

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **D.** | 25 |

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|   |   |

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| --- | --- |
| **13.** | **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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|   |   |

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| --- | --- |
| **14.** | In the equation /files/assess_files/a9b21bca-5208-4c61-96a9-98af161088e9/image/a01db50f-aaac-4c9a-9288-b2b0017bad50.gifwhat is the value of *x*? |
|  |
|   |

|  |  |
| --- | --- |
| **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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|   |   |

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| **15.** | 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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| **16.** | Which equation has an irrational solution? |
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|   |

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| --- | --- |
| **A.** | /files/assess_files/c234e2f2-5fe8-4be2-ab56-c1ccfc542505/image/84a1bfe0-bd26-4ec6-82c9-e983e135a766.gif |

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|   |

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

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|   |   |

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| --- | --- |
| **17.** | 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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|   |

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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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| --- | --- |
| **18.** | What is the value of /files/assess_files/9b5fd1d1-ed01-4b4e-9386-a3a18e69dd52/image/08f7d09d-03ba-40dc-bdfe-8ad8a5f1537b.gif? |
|  |
|   |

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

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|  |  |
|   |

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

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|  |  |
|   |

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

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|  |  |
| --- | --- |
| **D.** |   32 |

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| **19.** | 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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|  |  |
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| --- | --- |
| **B.** | /files/assess_files/8e35ce23-e161-443c-8249-56087578ee5a/image/6b099802-8167-42f9-a37f-916eaa2a0fee.gif |

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

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|   |

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

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| **20.** | What is the value of *z* when/files/assess_files/212b9b3d-6756-42d8-bf3a-38e88e180eba/image/95919fdb-c7b1-44c7-82f4-020b5f7f2fa0.gif? |
|  |
|   |

|  |  |
| --- | --- |
| **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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| --- | --- |
| **21.** | If /files/assess_files/9a332783-107a-4dbc-8842-08dbe23655cd/image/5e53ff9a-05c8-458c-bac0-582eeb3045f7.gif what is a value of *x*? |
|  |
|   |

|  |  |
| --- | --- |
| **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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|   |   |

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| --- | --- |
| **22.** | Which statement is true? |
|  |
|   |

|  |  |
| --- | --- |
| **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 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **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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|   |   |

|  |  |
| --- | --- |
| **23.** | What is the solution to /files/assess_files/25067f44-4137-4d35-afeb-e6d122f78cee/image/b675cfe6-9ada-4235-81c0-1d73d03dae8b.gif? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** |   x=−4 or x=4 |

 |
|  |  |
|   |

|  |  |
| --- | --- |
| **B.** |   x=−8 or x=8 |

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|  |  |
|   |

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| --- | --- |
| **C.** |   x=−32 or x=32 |

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|  |  |
|   |

|  |  |
| --- | --- |
| **D.** |   x=−256 or x=256 |

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|  |  |
|   |   |

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| --- | --- |
| **24.** | What is the value of *x* in the equation /files/assess_files/13ea7d73-a185-4055-ac99-8ab05fe74ce5/image/45f68db0-9bdb-44cd-814f-fcf3401de561.gif? |
|  |
|   |

|  |  |
| --- | --- |
| **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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| **25.** | 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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| **26.** | 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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| **27.** | 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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| **28.** | 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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| **29.** | 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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| **30.** | 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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| **31.** | 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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| **32.** | 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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| **33.** | 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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| **34.** | 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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