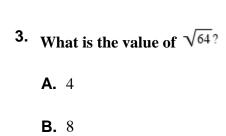
1.	Jane hangs a square-shaped mirror in her bathroom. The area of the mirror is 361 square inches. What is the length of one side of the mirror?
	A. 18 inches
	B. 19 inches
	<b>C.</b> 90.25 inches
	<b>D.</b> 180.50 inches
2.	What is the value of $\sqrt[3]{27}$ ?



- **A.** 32
- **B.** 2<sup>3</sup>
- **C.** 4<sup>2</sup>
- **D.**  $4\sqrt{16}$
- 5. If  $y^2 = 100$ , what is one possible value of y?
  - **A.**  $\sqrt{100}$
  - **B.**  $\sqrt{50}$
  - **C.**  $\sqrt{25}$
  - **D.**  $\sqrt{5}$
- 6. Which model BEST represents  $\sqrt{16}$ ?

A. 4





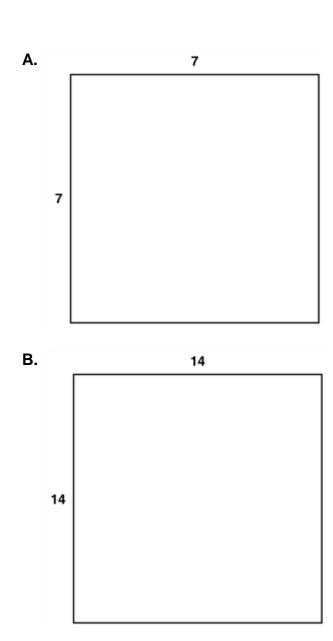
C.

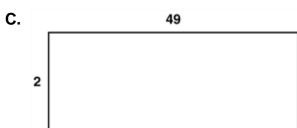


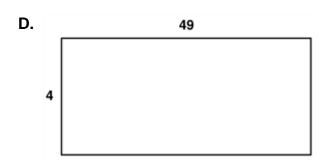




7. Which model BEST represents  $\sqrt{196}$ ?

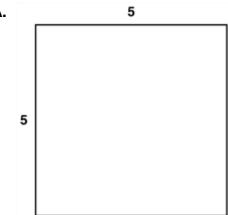


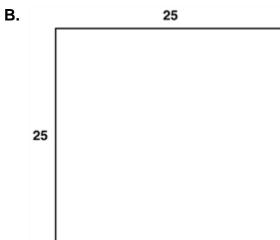




8.	Which model BEST represents	$\sqrt{625}$ ?
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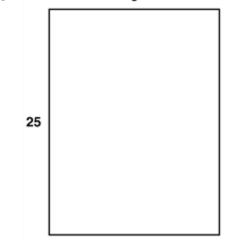
A.





C.

5



D.

5

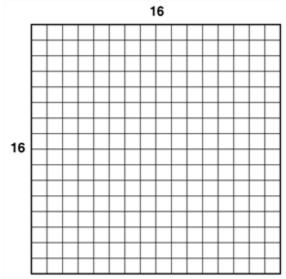


9. Which model BEST represents  $\sqrt{256?}$ 

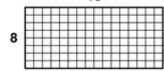
A.

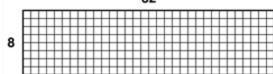


В.



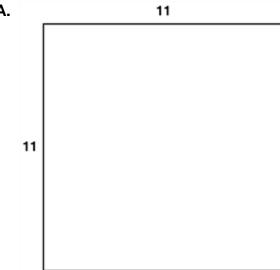
C.



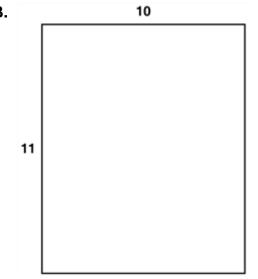


10. Aashi needs to solve  $\sqrt{121}$  on her math homework. Which one of these models would be BEST for

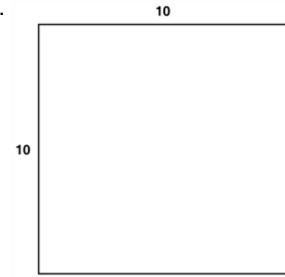
A.



В.



C.



D.



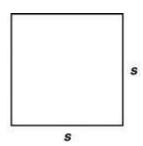


11. In the equation  $x^3 = 8$ , what is the value of x?

- **A.**  $\sqrt[3]{512}$
- **B.**  $\sqrt[3]{64}$
- **C.**  $\sqrt[3]{24}$
- **D.** <sup>3</sup>√8

- **A.** 4
- **B.** 8
- **C.** 16
- **D.**  $21\frac{1}{3}$

### 13. The area of this square is 144 square inches.



What is the length of each side, s, of the square?

- **A.** 72 inches
- **B.** 36 inches
- **C.** 16 inches
- **D.** 12 inches

**14.** Which represents the solution to  $x^3 = 512$ ?

- **A.**  $x = \sqrt[3]{512}$
- **B.**  $x = 512^3$
- **C.**  $x = 512^2$

**D.** 
$$x = \sqrt{512}$$

#### 15. Which number is the square root of 64?

- **A.** 4
- **B.** 8
- **C.** 12
- **D.** 16

# **16.** Which of the following is equivalent to $\sqrt{196}$ ?

- **A.**  $\sqrt{14}$
- **B.**  $7\sqrt{2}$
- **C.** 14
- **D.** 98

# 17. What is the value of $\sqrt{16}$ ?

- **A.**  $\sqrt{4}$
- B. √8
- **C.** 4
- **D.** 8

**18.** What is the value of x when  $\sqrt{x} = 20$ ?

- **A.** 20
- **B.** 40
- **C.** 200
- **D.** 400

19. What is the value of  $\sqrt{36}$ ?

- **A.** 18
- **B.** 9
- **C.** 6
- **D.** 4

**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?

- **A.** 9 feet
- **B.** 11 feet
- **C.** 12 feet
- **D.** 13 feet

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

- **A.** 9 inches
- **B.** 13 inches
- **C.** 17 inches
- **D.** 23 inches

## 22. The number $\sqrt{10}$ can be represented by which of the following geometric models?

- **A.** The perimeter of a square with an area of 100 square units
- **B.** The side of a square with a perimeter of 10 units
- C. The perimeter of a square with sides of  $\frac{\sqrt{10}}{4}$  units in length
- **D.** The side of a square with an area of 10 square units

#### 23. The figure below represents a square with an area of 21 square inches.

Area = 21 in.2

Which value below represents the side length of this square, in inches?

A.	$\sqrt{21^2}$
	V 21

B. 
$$\frac{21}{2}$$

C. 
$$\frac{21}{4}$$

**D.** 
$$\sqrt{21}$$

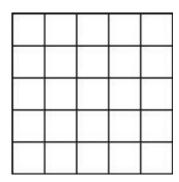
24. The figure below models a square with an area of 121 square meters.

Which expression BEST represents the length, in meters, of each side of the square?

**A.** 
$$\sqrt{121^2}$$

**D.** 
$$\sqrt{121}$$

25. Which value represents the square root of the number of squares in the array below?



- **A.** 5
- **B.** 9
- **C.** 20
- **D.** 25
- 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?
  - **A.** 4.5 feet
  - **B.** 8.1 feet
  - **C.** 9.0 feet
  - **D.** 20.25 feet
- 27. Given  $144 = 12^2$ , which statement is true?
  - **A.**  $144^2 = 12$
  - **B.**  $\sqrt{144^2} = 12$
  - C.  $\sqrt{12^2} = 144$

**D.** 
$$\sqrt{144} = 12$$

**28.** Given  $5 = \sqrt{25}$ , which statement is true?

**A.** 
$$25^2 = 5$$

**B.** 
$$\sqrt{5} = 25$$

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

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

**29.** Given  $\sqrt{49} = 7$ , which of the following statements is true?

**A.** 
$$\sqrt{7} = 49$$

**B.** 
$$49^2 = 7$$

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

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

**30.** Which statement is justified by  $14^2 = 196$ ?

- **A.** 14 is a perfect square.
- **B.** 196 is a perfect square.

**C.** 
$$\sqrt{14} = 196$$

**D.** 
$$196^2 = 14$$

- 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?
  - **A.** 32-4
  - **B.** 32 ÷ 4
  - **C.**  $\sqrt{32} 4$
  - **D.**  $\sqrt{32}$
- 32. If  $8^2 = 64$ , which statement is true?
  - **A.**  $\sqrt{8} = 64$
  - B.  $\sqrt{64} = 8$
  - **C.**  $81 = 8^2$
  - **D.**  $64^2 = 8$
- 33. The side lengths of four squares are represented in two different ways in the table below.

### **Four Squares**

Square A	2 units	√4 units
Square B	4 units	√16 units
Square C	5 units	√25 units
Square D	7 units	√49 units

What is another way to represent the side length of a square with a side length of 11 units?

- **A.**  $\sqrt{11}$
- **B.**  $\sqrt{55}$
- **C.**  $\sqrt{121}$
- **D.**  $\sqrt{144}$

34. Which choice is both the square of an integer and the cube of an integer?

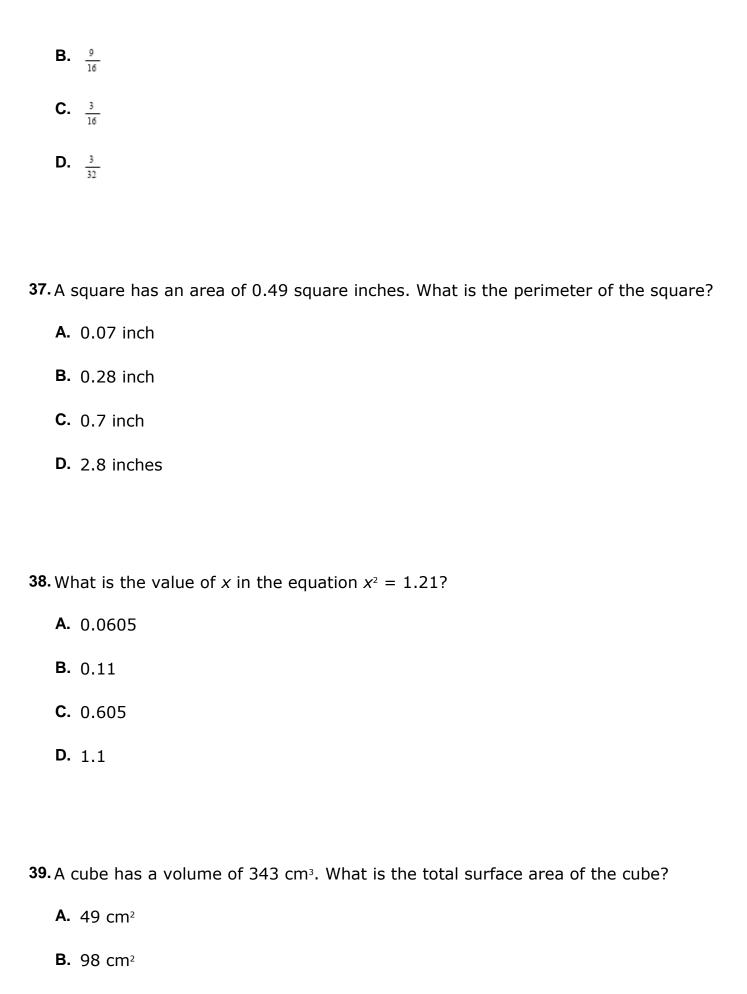
- **A.** 121
- **B.** 100
- **C**. 64
- **D**. 16

35. A square has an area of 289 in<sup>2</sup>. What is the side length of the square?

- **A.** 7 in.
- **B.** 9 in.
- **C.** 13 in.
- **D.** 17 in.

**36.** What is the positive value of x in the equation  $x^2 = \frac{36}{64}$ ?

**A.**  $\frac{3}{4}$ 



- **C.** 147 cm<sup>2</sup>
- **D.** 294 cm<sup>2</sup>
- **40.** A square has an area of 0.49 square inches. What is the length of one side of the square?
  - **A.** 7.00 inches
  - **B.** 2.50 inches
  - **C.** 0.70 inch
  - **D.** 0.25 inch
- 41. A square has an area of 64 square centimeters. What is the perimeter of the square?
  - A. 8 centimeters
  - **B.** 16 centimeters
  - C. 32 centimeters
  - **D.** 64 centimeters
- What is the value of x in the equation  $x = \sqrt[3]{\frac{8}{125}}$ ?
  - **A.**  $\frac{2}{5}$
  - B. §

- **C.**  $\frac{2}{125}$
- **D.**  $\frac{24}{125}$

43. A square has an area of 81 square inches. What is the perimeter of the square?

- A. 40 inches
- **B.** 36 inches
- C. 20 inches
- **D.** 9 inches

**44.** What is the value of  $\sqrt[3]{216}$ ?

- **A.** 108
- **B.** 72
- **C**. 15
- **D**. 6

45. A cube has a volume of  $\frac{125}{27}$  cm<sup>3</sup>. What is the area of one side of the cube?

- **A.**  $\frac{5}{3}$  cm<sup>2</sup>
- **B.**  $\frac{25}{3}$  cm<sup>2</sup>

- **C.**  $\frac{5}{9}$  cm<sup>2</sup>
- **D.**  $\frac{25}{9}$  cm<sup>2</sup>
- **46.** What is the value of g in the equation  $g^2 = 1.21$ ?
  - **A.** 0.11
  - **B.** 0.605
  - **C.** 1.1
  - **D.** 6.05
- 47. A square has an area of 225 ft². What is the perimeter of the square?
  - **A.** 15 ft
  - **B.** 25 ft
  - **C.** 60 ft
  - **D.** 100 ft
- 48. A cube has a volume of 27 cm<sup>3</sup>. What is the length of one edge of the cube?
  - **A.** 3 cm
  - **B.** 5 cm
  - **C.** 9 cm

D.	13.5	cm

- 49. A cube has a volume of 8 cm<sup>3</sup>. What is the perimeter of one face of the cube?
  - **A.** 2 cm
  - **B.** 4 cm
  - **C.** 8 cm
  - **D.** 16 cm
- 50. The volume of a cube is 343 cubic inches. What is the length of one side of this cube?
  - **A.** 6.4 inches
  - **B.** 7 inches
  - C. 7.6 inches
  - **D.** 8 inches
- **51.** Which could be the value of x in the equation  $x^2 = \frac{4}{25}$ ?
  - **A.**  $\frac{4}{5}$
  - **B.**  $\frac{2}{5}$
  - C. 16
  - **D.**  $\frac{2}{25}$

52.	A c	cube has a volume of 343 cm <sup>3</sup> . What is the area of one face of the cube?
	A.	7 cm <sup>2</sup>
	В.	14 cm <sup>2</sup>
	C.	19 cm <sup>2</sup>
	D.	49 cm <sup>2</sup>
53.	A c	cube has a volume of 64 cm <sup>3</sup> . What is the surface area of the cube?
	A.	64 cm <sup>2</sup>
	В.	96 cm <sup>2</sup>
	C.	192 cm <sup>2</sup>
	D.	384 cm <sup>2</sup>
54.	Wh	nat is the value of $x$ in the equation $x^2 = 0.0064$ ?
	A.	0.8
	В.	0.08
	C.	0.008
	D.	0.0008

**55.** What is the solution to the equation  $2x^3 = 686$ ?

- **A.** x = 4.4
- **B.** x = 7.0
- **C.** x = 18.5
- **D.** x = 26.0

**56.** What is the value of x in the equation  $x^3 + 2 = 10$ ?

- **A.** 2
- **B.** 3
- **C.** 4
- **D.** 5

**57.** What is the value  $(\sqrt{16} + \sqrt[3]{27})^2$ 

- **A.** 25
- **B.** 49
- **C.** 121
- **D.** 289

58. The area of a square is 100 cm<sup>2</sup>. What is the length of a side of the square?

**A.** 50 cm

- **B.** 25 cm
- **C.** 20 cm
- **D.** 10 cm

**59.** What is the value of  $\sqrt[3]{64} \times \sqrt{100}$ ?

- **A.** 40
- **B.** 80
- **C.** 160
- **D.** 200

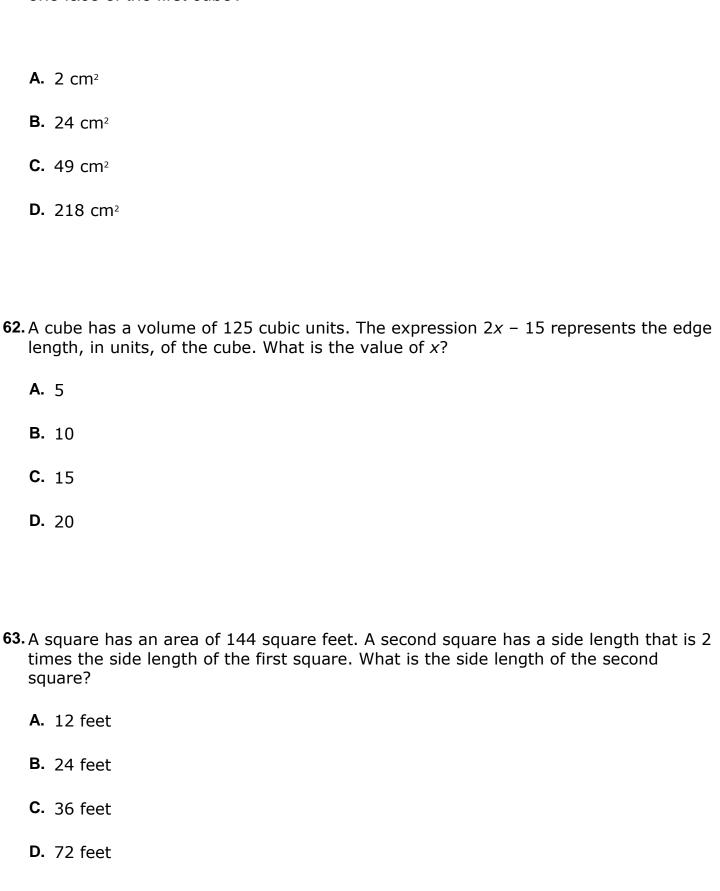
**60.** Which choice is both a perfect square and a perfect cube?

- **A.**  $\frac{1}{4}$
- **B.** 1/8
- **C.**  $\frac{1}{16}$
- **D.**  $\frac{1}{64}$

61. Brian has two cubes.

- The first cube has a volume of 125 cm<sup>3</sup>.
- The second cube has a volume of 343 cm<sup>3</sup>.

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



- **64.** What is the solution to the equation  $5^2 2^3 + \sqrt{64} = x$ ?
  - **A.** x = 25
  - **B.** x = 29
  - **C.** x = 33
  - **D.** x = 49
- **65.** If  $x^2 = 256$ , what is the value of  $\sqrt{x}$ ?
  - **A.** 4
  - **B.** 16
  - **C.** 128
  - **D.** 256
- **66.** A square has an area of 144 square inches. What is the length of one side of the square?
  - A. 36 inches
  - **B.** 18 inches
  - C. 12 inches
  - **D.** 3 inches

67. What is the value of $\sqrt{4^3}$ ?			
<b>A.</b> 2.3			
<b>B.</b> 3.5			
<b>C.</b> 4			
<b>D.</b> 8			
68. Mr. Waltz calculated the volume of two cubes.			
<ul> <li>Cube J had a volume of 216 cm³.</li> <li>Cube K had a volume of 64 cm³.</li> </ul>			
What is the difference in the measures of the side lengths of cube J and cube K?			
<b>A.</b> 2 cm			
<b>B.</b> 7 cm			
, c			
<b>C.</b> 76 cm			
<b>C.</b> 76 cm			

69. A cube has a volume of  $\frac{1}{64}$  ft<sup>3</sup>. What is the perimeter for one face of the cube?

**A.** 
$$\frac{1}{16}$$
 ft

- **B.**  $\frac{1}{4}$  ft
- C.  $\frac{1}{2}$  ft
- **D.** 1 ft

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

- **A.** 8
- **B**. 4
- **C.**  $\frac{1}{4}$
- **D.**  $\frac{1}{8}$

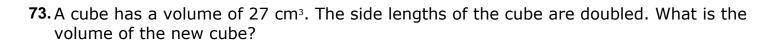
**71.** Which value of x satisfies the equation  $x^3 = 27$ ?

- **A.** 3
- **B.** 9
- **C.** 24
- **D.** 81

**72.** What is the value of x in the equation  $x^2 = 169$ ?

- **A.** x = 12.00
- **B.** x = 13.00

C.	<i>x</i> =	42.25
D.	<i>x</i> =	84.50





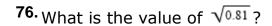
74. The area of each face of a cube is 25 ft². What is the volume of the cube?

- **A.** 5 ft<sup>3</sup>
- **B.** 125 ft<sup>3</sup>
- **C.** 625 ft<sup>3</sup>
- **D.** 3,125 ft<sup>3</sup>

**75.** Which is the value of x in the equation  $x^2 = 400$ ?

- **A.** 20
- **B.** 100
- **C.** 200

D.	800



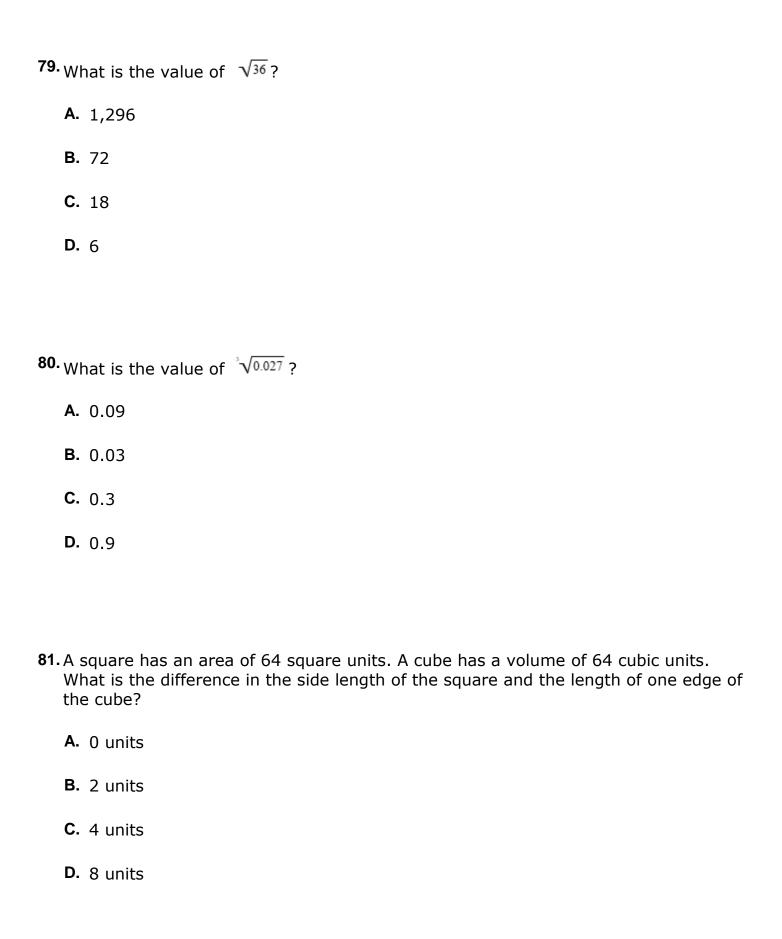
- **A.** 0.27
- **B.** 0.405
- **C**. 0.9
- **D.** 1.62

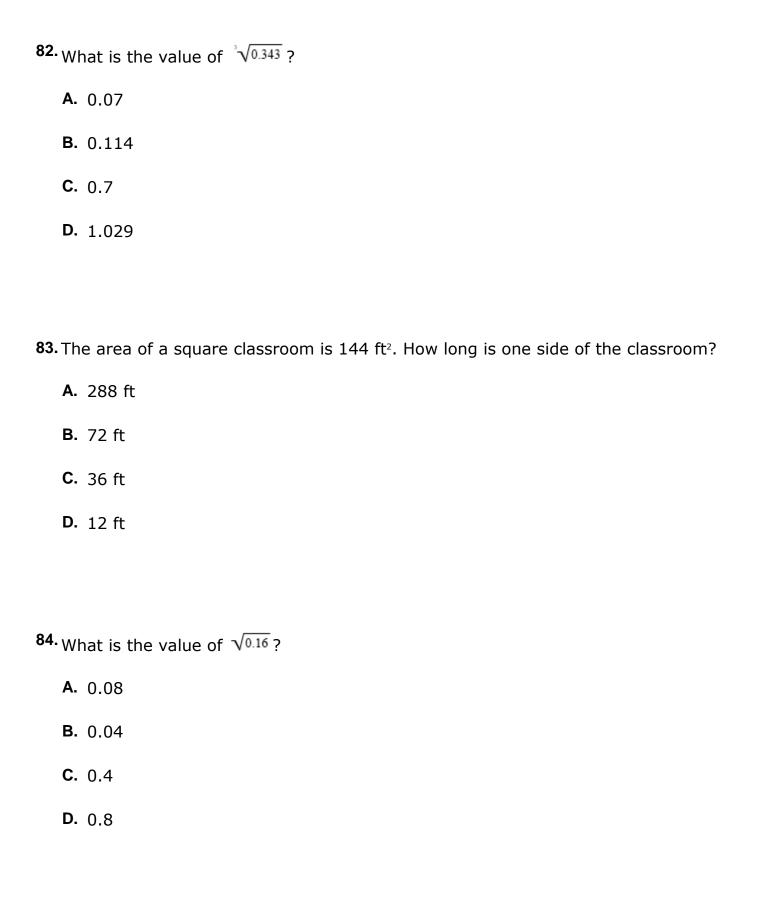
**77.** What is the value of  $\sqrt{144}$ ?

- **A.** 12
- **B.** 18
- **C.** 36
- **D.** 72

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





85.		equare garden has an area of $64  \text{ft}^2$ . If the length of the garden is increased by 3 ft d the width is increased by 2 ft, what is the area of the new rectangular garden?
	A.	69 ft <sup>2</sup>
	В.	110 ft <sup>2</sup>
	C.	121 ft <sup>2</sup>
	D.	169 ft <sup>2</sup>
86.		equare-shaped placemat has an area of 169 in.2 What is the length of one side of e placemat?
	A.	13 in.
	В	16 :
	В.	16 in.
	C.	84.5 in.
	D.	338 in.
87.	.Wh	hat is the value of $x$ in the equation $4x^2 = 64$ ?
	A.	2
	В.	4
	C.	8
	D.	16

A.

 $\sqrt{8}$ 

В.

 $\sqrt{12}$ 

C.

 $\sqrt{16}$ 

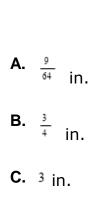
D.

 $\sqrt{20}$ 

**89.** What is the value of  $\sqrt[3]{8}$ ?

- **A.** 2
- **B.**  $2\frac{2}{3}$
- **C.** 5
- **D.** 24

90. Laura makes an ice cube having a volume of  $\frac{27}{64}$  cubic inch. What is the side length of the ice cube?



D. 4 in.



- **A.** 5 cm
- **B.** 11.18 cm
- **C.** 25 cm
- **D.** 31.25 cm

- **A.** 5 inches
- **B.** 10 inches
- **C.** 25 inches
- **D.** 60 inches
- 93. The area of a square is 196 in.<sup>2</sup> What is the length of one side of the square?
  - **A.** 6 in.

- **B.** 14 in.
- **C.** 49 in.
- **D.** 98 in.
- 94. What is the value of  $\sqrt{\frac{9}{16}}$  ?
  - **A.** 9/4
  - **B.**  $\frac{3}{4}$
  - **C.**  $\frac{3}{8}$
  - **D.**  $\frac{3}{16}$

- 95. What is the value of  $\sqrt[3]{\frac{8}{27}}$ ?
  - **A.**  $\frac{2}{3}$
  - B.
    - 4 13
  - C.

**96.** What is the value of  $\sqrt[3]{3\frac{3}{8}}$  ?

- **A.**  $1\frac{1}{8}$
- B. 1<sup>3</sup>/<sub>8</sub>
- **C.**  $1\frac{1}{2}$
- **D.**  $3\frac{1}{2}$

97. The area of a square garden is 36 ft². What is the perimeter of the garden?

- **A.** 6 ft
- **B.** 9 ft
- **C.** 18 ft
- **D.** 24 ft

<b>98.</b> What is the sum of $\sqrt{121}$ and $\sqrt{225}$ ?
<b>A.</b> 18
<b>B.</b> 26
<b>C.</b> 173
<b>D.</b> 346
<b>99.</b> What is the value of $x$ in the equation $x^2 = 49$ ?
<b>A</b> . 4
<b>B.</b> 7
<b>C</b> . 25
<b>D.</b> 98
400 M(1:1:1) 1
<b>100.</b> Which is the value of $x$ in the equation $x^3 = 64$ ?
<b>A</b> . 4
<b>B.</b> 8
<b>C.</b> 16
<b>D.</b> 21

**101.** What is the value of  $\sqrt{0.04}$ ?

**A.** 0.2

- **B.** 0.08
- **C.** 0.02
- **D.** 0.0016

102. The area of a square garden is  $20\frac{1}{4}$  ft<sup>2</sup>. What is the length of one side of the garden?

- **A.** 4.5 ft
- **B.** 5.1 ft
- **C.** 10.1 ft
- **D.** 10.5 ft

**103.** What is the value of x when  $36 = x^2$ ?

- **A.** 6
- **B.** 18
- **C.** 34
- **D.** 72

What is the value of x in the equation  $x^2 = \frac{4}{9}$ ?

A.

В.

C.

D.

105. What is the solution to the equation shown below?

$$5x^2 = 245$$

**D.** 
$$\pm 7$$

106.

What is the value of  $\sqrt[3]{\frac{1}{216}}$  ?

- **A.**  $\frac{1}{108}$
- **B.**  $\frac{1}{72}$
- C.  $\frac{1}{6}$
- **D.**  $\frac{1}{2}$

**107.** What is the value of x in the equation  $x^3 = 343$ ?

- **A.** x = 6
- **B.** x = 7
- **C.** x = 57
- **D.** x = 114

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

- **A.** 3 inches
- **B.** 6 inches
- C. 12 inches
- **D.** 27 inches

What is the value of x in the equation  $x^2 = \frac{\$1}{144}$ ?

- **A.**  $x = \frac{3}{4}$
- B.  $X = \frac{9}{16}$
- **C.**  $\chi = \frac{1}{4}$
- **D.**  $x = \frac{1}{16}$

**110.** What is the value(s) of x in the equation  $7x^3 = 448$ ?

- **A.** 4
- **B.** ±4
- **C.** 8
- **D**. ±8

111. What is the value of  $\sqrt{\frac{9}{49}}$ ?

- **A.**  $\frac{1}{49}$
- **B.**  $\frac{3}{49}$
- **C.**  $\frac{3}{7}$
- **D.**  $\frac{9}{7}$

**112.** What is the value(s) of x in the equation below?

$$25x^2 = 16$$

- **A.** ±  $\frac{4}{5}$
- **B.**  $\frac{4}{5}$
- **C.**  $\pm \frac{4}{25}$
- **D.**  $\frac{4}{25}$
- 113. What is the value of x in  $x^3 = \frac{27}{8}$ ?
  - **A.**  $\pm \frac{3}{2}$
  - **B.**  $\frac{3}{2}$
  - C. ± 3/8
  - **D.**  $\frac{3}{8}$
- **114.** If  $x^2 = 64$ , what is the value of  $\sqrt[3]{x}$ ?
  - **A.** 2
  - **B**. 4

- **C.** 8
- **D**. 16

**115.** In the equation  $x^3 = 8$ , what is the value of x?

- **A.** 2
- B.  $\frac{8}{3}$
- **C.** 5
- **D.** 24

**116.** What is the value of the expression  $\sqrt[3]{1000}$  ?

- **A.** 3000
- **B.** 100
- **C.** 30
- **D.** 10

117. Which equation has an irrational solution?

A.  $x^2 = 2$ 

B. 
$$x^2 = 81$$

c. 
$$x^3 = 27$$

D. 
$$x^3 = 64$$

118. If  $x^2 = 81$  then x = 9 or x = -9 Which equation shows why this statement is correct?

A. 
$$9^2 = (-9^2)$$

B. 
$$\sqrt{81} = \sqrt{-81}$$

$$\mathbf{c.} \ (9)(-9) = (9)(-9)$$

$$\frac{-81}{9} = \frac{81}{-9}$$

**119.** What is the value of  $\sqrt{16}$  ?

- **A.** 4
- **B.** 8
- **C**. 16
- **D.** 32

120. Which expression has a value of 10?

B. 
$$\sqrt{5}$$

D. 
$$\sqrt{100}$$

121. What is the value of z when  $z^3 = \frac{64}{27}$ ?

A. 
$$\frac{\sqrt[3]{64}}{27}$$

B. 
$$\sqrt[3]{\frac{64}{27}}$$

c. 
$$\frac{64}{27(3)}$$

D. 
$$\frac{64^3}{27^3}$$

**122.** If  $x^2 = 7$  what is a value of x?

A. 
$$\sqrt{7}$$

- **B.** 3.5
- c.  $\sqrt{49}$
- **D.** 14

## 123. Which statement is true?

- A.  $\sqrt{2}$  is rational because it can be written as an integer.
- B.  $\sqrt{2} \text{ is rational because it can be written as } \frac{a}{b} \text{ or } \frac{-a}{b} \text{ where } a \text{ and } b \text{ are integers and } b \neq 0.$
- $\mathbf{C}.$   $\sqrt{2}$  is irrational because it cannot be written as a terminating decimal.
- D.  $\frac{a}{\sqrt{2}}$  is irrational because it cannot be written as  $\frac{a}{b}$  where a and b are integers and  $b \neq 0$ .
- **124.** What is the solution to  $x^2 = 16$ ?

**A.** 
$$x = -4$$
 or  $x = 4$ 

**B.** 
$$x = -8$$
 or  $x = 8$ 

**C.** 
$$x=-32$$
 or  $x=32$ 

**D.** 
$$x=-256$$
 or  $x=256$ 

- **125.** What is the value of x in the equation  $x = \sqrt[3]{27}$ ?
  - A. x = 3
  - **B.** x = 9
  - c.  $x \pm 3$
  - **D.**  $x \pm 9$
- **126.**  $x^2 = 169$ ?
  - Which expression shows the value of x in the equation
  - A.  $\pm\sqrt{13}$
  - **B.**  $\pm \frac{13}{2}$
  - **C.**  $\pm \sqrt{169}$
  - **D.**  $\pm \frac{169}{2}$
- **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?

- **A.** √128
- **B.** <sup>3</sup>√128
- **C.** 128<sup>2</sup>
- **D.** 128<sup>3</sup>

**128.** What is the value of x in the equation  $512x^3 = 8$ ?

- **A.**  $\sqrt[3]{\frac{1}{4}}$
- **B.**  $\frac{1}{4}$
- **C.** <sup>3</sup>√4
- **D.** 4

129. Which expression has a value that is irrational?

- **A.** 2<sup>2</sup>
- **B.** √4

- **C.**  $2\sqrt{2}$
- **D.**  $(\sqrt{2})^2$

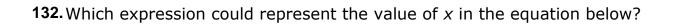
**130.** What is the value of the expression  $\sqrt[3]{216}$ ?

- **A.** 72
- **B.** 27
- **C.** 8
- **D.** 6

**131.** Which expression represents the value of x in the equation below?

$$x^2 = 25$$

- **A**. √5
- **B.** √25
- **C.** 5<sup>2</sup>
- **D**. 25<sup>2</sup>



$$x^3 = 2$$

- **A.**  $\frac{2}{3}$
- **B.** 2<sup>3</sup>
- **c**. <sup>3√2</sup>
- D. 2·3
- **133.** The volume of a cube is 125 cubic centimeters. How many centimeters long is each edge of the cube?
  - **A.** 5 centimeters
  - **B.** 11 centimeters
  - C. 15 centimeters
  - **D.** 42 centimeters
- **134.** An electric company charges its residential customers \$0.13 per kWh with a fixed monthly charge of \$16. If a customer uses  $\frac{x \text{ kWh}}{x \text{ kWh}}$  of electricity in a month, which of these functions represents the total monthly bill?

**A.** 
$$g(x) = 0.13x$$

**B.** 
$$g(x) = 16x$$

**C.** 
$$g(x) = 0.13x + 16$$

**D.** 
$$g(x) = 16x + 0.13$$

**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.

Year	Value (in dollars)
1	16,000
2	12,800
3	10,240

What will be the approximate value of the car in the 10th year?