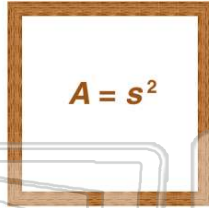




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

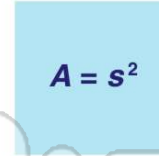
- 1 The **area** of a square picture frame is **441 in.<sup>2</sup>**. What is the **length** of the picture frame?

- A 23 in.
- B 21 in.
- C 20 in.
- D 12 in.



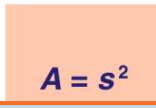
- 2 The **area** of a square tile is **72.25 in.<sup>2</sup>**. What is the **length** of the tile?

- A  $8\frac{1}{5}$  in.
- B  $8\frac{1}{4}$  in.
- C  $8\frac{1}{2}$  in.
- D  $8\frac{3}{4}$  in.



- 3 The **area** of a square plate is **689 cm.<sup>2</sup>**. How **long** is each side of the plate, to the nearest hundredth?

- A 26.25 cm
- B 26.32 cm
- C 27.25 cm
- D



- 4 The net of a backyard volleyball court divides it into two squares. If the **area** of one of the square courts is **992.25 ft.<sup>2</sup>**, how **long** is the net from sideline to sideline? **A = s<sup>2</sup>**

- A 30.98 ft
- C 31.5 ft



## PREVIEW

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- 7
- A
  - B -5.5, 5.5
  - C -6.3, 6.3,
  - D -7.3, 7.3

- A -6.5, 6.5
- B -6.8, 6.8
- C -7.2, 7.2
- D -7.5, 7.5

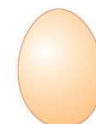
- 9 A rock falls off a 10-foot cliff. The model that shows how far the rock falls (***h***) after ***t*** seconds is  **$h = -16t^2 + 10$** . About **how long** will it take the rock to reach the ground?

- A 4 seconds
- B 3.2 seconds
- C 0.79 seconds
- D 0.63 seconds



- 10 Mr. Foote's science class is timing how long it takes for an egg to fall 33 feet. Using the model,  **$h = -16t^2 + 33$** , with ***h*** being the height and ***t*** being the time, about **how long** will it take for the egg to fall to the ground?

- A 0.69 seconds
- B 1.4 seconds
- C 2.06 seconds
- D 5.7 seconds

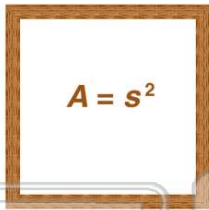




## ANSWER KEY

The **area** of a square picture frame is **441 in.<sup>2</sup>**. What is the **length** of the picture frame?

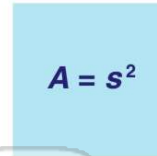
- A 23 in.
- B 21 in.
- C 20 in.
- D 12 in.



(b)

The **area** of a square tile is **72.25 in.<sup>2</sup>**. What is the **length** of the tile?

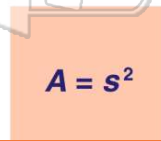
- A  $8\frac{1}{5}$  in.
- B  $8\frac{1}{4}$  in.
- C  $8\frac{1}{2}$  in.
- D  $8\frac{3}{4}$  in.



(c)

The **area** of a square plate is **689 cm<sup>2</sup>**. How **long** is each side of the plate, to the nearest hundredth?

- A 26.25 cm
- B 26.32 cm
- C 27.25 cm
- D 27.32 cm



(a)

The net of a backyard volleyball court divides it into two squares. If the **area** of one of the square courts is **992.25 ft<sup>2</sup>**, how **long** is the net from sideline to sideline? **A = s<sup>2</sup>**

- A 30.98 ft
- B 31.25 ft
- C 31.5 ft
- D 31.75 ft

(c)



## PREVIEW

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A rock falls off a 10-foot cliff. The model that shows how far the rock falls (***h***) after ***t*** seconds is  **$h = -16t^2 + 10$** . About **how long** will it take the rock to reach the ground?

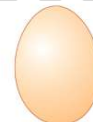
- A 4 seconds
- B 3.2 seconds
- C 0.79 seconds
- D 0.63 seconds



(c)

Mr. Foote's science class is timing how long it takes for an egg to fall 33 feet. Using the model,  **$h = -16t^2 + 33$** , with ***h*** being the height and ***t*** being the time, about **how long** will it take for the egg to fall to the ground?

- A 0.69 seconds
- B 1.4 seconds
- C 2.06 seconds
- D 5.7 seconds



(b)