

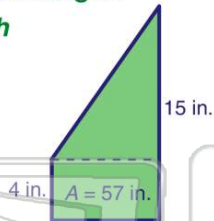


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 If the **area** of the trapezoid shown is **57 in.<sup>2</sup>**, what is the **height**?

$$A = \left(\frac{1}{2}\right)(b_1 + b_2)h$$

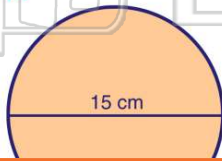
- A 1.5 in.
- B 3 in.
- C 6 in.
- D 7.6 in.



- 3 What is the **area** of the circle shown?

$$A = \pi r^2 \quad \pi = 3.14$$

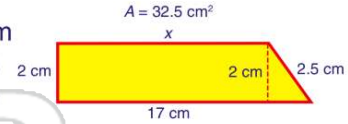
- A 47.1 cm<sup>2</sup>
- B 94.2 cm<sup>2</sup>
- C 176.625 cm<sup>2</sup>
- D 706.5 cm<sup>2</sup>



- 2 If the **area** of the trapezoid shown is **32.5 cm<sup>2</sup>**, what is the missing side?

$$A = \left(\frac{1}{2}\right)(b_1 + b_2)h$$

- A 16.25 cm
- B 15.5 cm
- C 32.5 cm
- D 3.4 cm



- 4 If the area of a circle is **19.625 in.<sup>2</sup>**, what is the **diameter**?

$$A = \pi r^2 \quad \pi = 3.14$$

- A 1.25 in.
- B 2.5 in.
- C 5 in.



## PREVIEW

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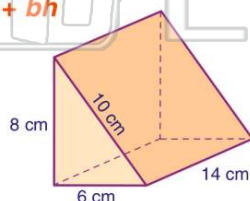
- 5
- 7
- B cone
  - C cylinder
  - D triangular prism



- 9 What is the **surface area** of the figure shown?

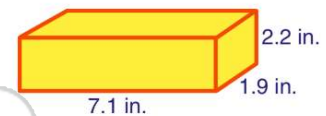
$$SA = wl + hl + bl + bh$$

- A 336 cm<sup>2</sup>
- B 384 cm<sup>2</sup>
- C 396 cm<sup>2</sup>
- D 406 cm<sup>2</sup>



- 10 Ricardo has **232 in.<sup>2</sup>** of wrapping paper. Which box does he have **enough paper** to cover exactly?

- A 33.29 in.<sup>2</sup>
- B 66.58 in.<sup>2</sup>
- C 70.84 in.<sup>2</sup>
- D 89.46 in.<sup>2</sup>



$$SA = 2wl + 2lh + 2hw$$

- A 2 in. x 8 in. x 10 in.
- B 3 in. x 9 in. x 9 in.
- C 3 in. x 9 in. x 11 in.
- D 4 in. x 7 in. x 9 in.

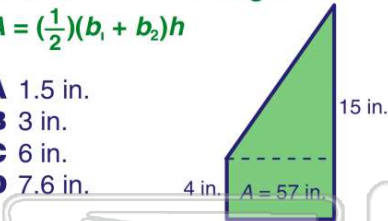


## ANSWER KEY

If the **area** of the trapezoid shown is **57 in.<sup>2</sup>**, what is the **height**?

$$A = \left(\frac{1}{2}\right)(b_1 + b_2)h$$

- A 1.5 in.
- B 3 in.
- C 6 in.
- D 7.6 in.

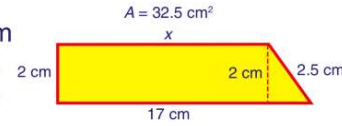


(C)

If the **area** of the trapezoid shown is **32.5 cm<sup>2</sup>**, what is the missing side?

$$A = \left(\frac{1}{2}\right)(b_1 + b_2)h$$

- A 16.25 cm
- B 15.5 cm
- C 32.5 cm
- D 3.4 cm

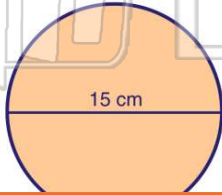


(b)

What is the **area** of the circle shown?

$$A = \pi r^2 \quad \pi = 3.14$$

- A 47.1 cm<sup>2</sup>
- B 94.2 cm<sup>2</sup>
- C 176.625 cm<sup>2</sup>
- D 706.5 cm<sup>2</sup>



(C)

If the area of a circle is **19.625 in.<sup>2</sup>**, what is the **diameter**?

$$A = \pi r^2 \quad \pi = 3.14$$

- A 1.25 in.
- B 2.5 in.
- C 5 in.
- D 12.5 in.

(C)



## PREVIEW

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- C cylinder
- D triangular prism



- B 66.58 in.<sup>2</sup>
- C 70.84 in.<sup>2</sup>
- D 89.46 in.<sup>2</sup>



What is the **surface area** of the figure shown?

$$SA = wl + hl + bl + bh$$

- A 336 cm<sup>2</sup>
- B 384 cm<sup>2</sup>
- C 396 cm<sup>2</sup>
- D 406 cm<sup>2</sup>



(b)

Ricardo has **232 in.<sup>2</sup>** of wrapping paper. Which box does he have **enough paper** to cover exactly?

$$SA = 2wl + 2lh + 2hw$$

- A 2 in. x 8 in. x 10 in.
- B 3 in. x 9 in. x 9 in.
- C 3 in. x 9 in. x 11 in.
- D 4 in. x 7 in. x 9 in.

(a)