



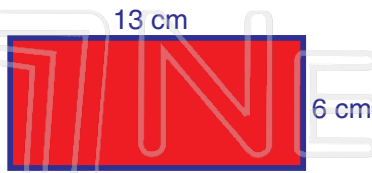
# Surface Area of Solid Figures

Math  
F

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

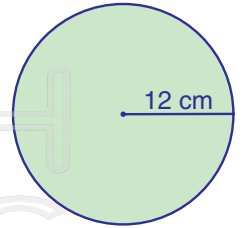
1 What is the **area** of the **rectangle** shown?

$$A = bh$$



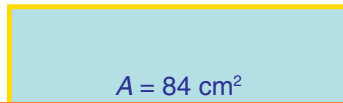
6 What is the **area** of a circle with a **radius** of 12 cm?

$$A = \pi r^2$$



2 If the **area** of the rectangle shown is **84 cm<sup>2</sup>**, what is the **height** of the rectangle?

$$A = bh$$



7 What is the **area** of the rectangle shown?

$$A = bh$$



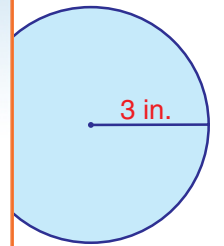
3 What is the **area** of the circle shown?

$$A = (\frac{1}{2})bh$$



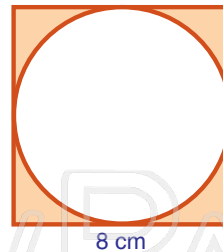
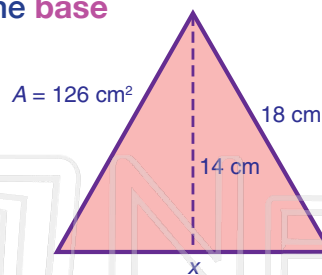
## PREVIEW

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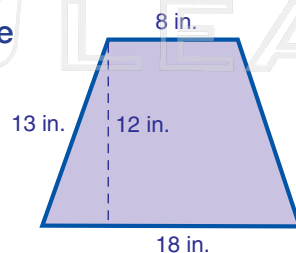
4 If the **area** of the triangle shown is **126 cm<sup>2</sup>**, what is the **base** of the triangle?

$$A = (\frac{1}{2})bh$$



5 What is the **area** of the **trapezoid** shown?

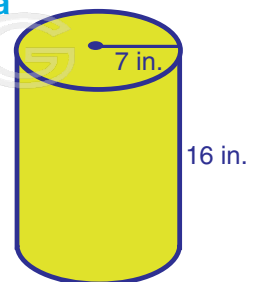
$$A = (\frac{1}{2})(b_1 + b_2)h$$



10 What is the **surface area** of the **cylinder** shown?

$$SA = 2\pi rh + 2\pi r^2$$

$$\pi = 3.14$$





# Surface Area of Solid Figures - Answer Key

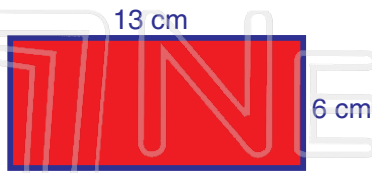
Math  
F

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

1 What is the **area** of the **rectangle** shown?

$$A = bh$$

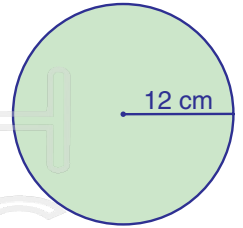
$$(13)(6) = 78 \text{ cm}^2$$



6 What is the **area** of a circle with a **radius** of 12 cm?

$$A = \pi r^2$$

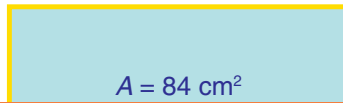
$$\pi 12^2 = 452.16 \text{ cm}^2$$



2 If the **area** of the rectangle shown is **84 cm<sup>2</sup>**, what is the **height** of the rectangle?

$$A = bh$$

$$84 \text{ cm}^2 = 12h$$
$$h = 7 \text{ cm}$$



7 What is the **area** of the rectangle shown?

$$A = bh$$



3 What is the **area** of the triangle shown?

$$A = (\frac{1}{2})bh$$

$$(\frac{1}{2})(18)(12) = 108 \text{ cm}^2$$



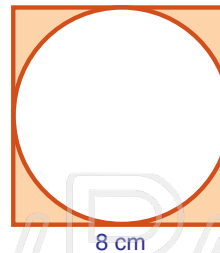
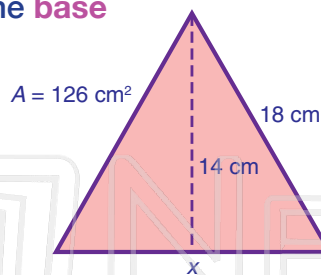
## PREVIEW

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4 If the **area** of the triangle shown is **126 cm<sup>2</sup>**, what is the **base** of the triangle?

$$A = (\frac{1}{2})bh$$

$$b = A / (\frac{1}{2})h$$
$$b = 126 / 7 = 18 \text{ cm}$$

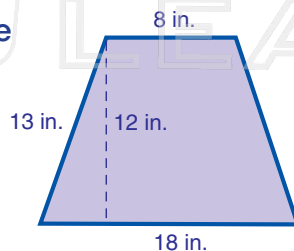


$$A \text{ of the square} = (8)(8) = 64 \text{ in.}^2$$
$$A \text{ of the circle} = (3.14)(4^2) = 50.24 \text{ in.}^2$$
$$\text{shaded area} = 64 - 50.24 = 13.76 \text{ in.}^2$$

5 What is the **area** of the **trapezoid** shown?

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

$$A = (\frac{1}{2})(18 + 8) \times 12 =$$
$$(\frac{1}{2})(26)(12) = 156 \text{ in.}^2$$



10 What is the **surface area** of the **cylinder** shown?

$$SA = 2\pi rh + 2\pi r^2$$

$$\pi = 3.14$$

$$(2)(3.14)(7)(16) + (2)(3.14)(7^2) =$$
$$703.36 + 307.72 = 1,011.08 \text{ in.}^2$$

