

REVIEW: Formulas for Perimeter and Area of a Rectangle

Name _____

Key Concept and Vocabulary

Perimeter of a Rectangle

$$P = (2 \times \ell) + (2 \times w)$$

perimeter

length

width

Area of a Rectangle

$$A = \ell \times w$$

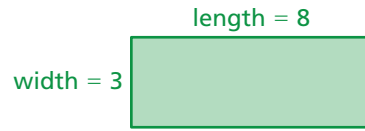
area

length

width



Visual Model



$$\begin{aligned} P &= (2 + \ell) + (2 + w) & A &= \ell \times w \\ &= (2 \times 8) + (2 \times 3) & &= 8 \times 3 \\ &= 16 + 6 & &= 24 \text{ square units} \\ &= 22 \text{ units} \end{aligned}$$

Skill Examples

1. $P = (2 \times 16) + (2 \times 14)$
 $= 32 + 28$
 $= 60 \text{ centimeters}$

2. $A = 12 \times 9$
 $= 108 \text{ square feet}$

Application Example

3. You want to put string lights around a rectangular window that is 52 inches long and 32 inches wide. How many inches of lights do you need?

$$\begin{aligned} P &= (2 \times 52) + (2 \times 32) \\ &= 104 + 64 \\ &= 168 \text{ inches} \end{aligned}$$

You need 168 inches of lights.

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Check your answers at BigIdeasMath.com.

Find the perimeter of the rectangle.

4. Perimeter = _____

5. Perimeter = _____

6. Perimeter = _____

Find the area of the rectangle.

7. Area = _____

8. Area = _____

9. Area = _____

10. **DIRT BIKE** You ride a dirt bike around a rectangular track that is 154 meters long and 110 meters wide. How long is one lap around the track? _____

11. **FLAG** You design a rectangular flag that is 60 inches long and 36 inches wide. How many square inches of fabric do you need to make the flag? _____