ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 22.1 – Literal Equations & Formulas

Use the formula P=2l+2w to find the width, w, for each rectangle. (Hint: Would these problems be easier if the formula were solved for another variable?)

1. Find the width of a rectangle with length 24 cm and perimeter 66 cm.

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$W = \frac{\rho}{2} - l$	
$W = \frac{66}{2} - 24$	
23 - 24	

- 4. Find the width of a rectangle with
- length 16 yd and perimeter 66 yd. $W = \frac{\rho}{2} \lambda$ $W = \frac{66}{2} 16$ W = 33 16

7. Find the width of a rectangle with length 20 ft and perimeter 100 ft.

$$W = \frac{100}{2} - 20$$

$$W = 50 - 20$$

w = 30 ft

Find the width of a rectangle with length 12 m and perimeter 96 m.

$$w = \frac{\rho}{2} - \ell$$

$$w = \frac{96}{2} - 12$$

$$w = 48 - 12$$

- W = 36 m
- 5. Find the width of a rectangle with length 27 cm and perimeter 74 cm.

$$W = \frac{\rho}{2} - \ell$$

$$W = \frac{74}{2} - 27$$

8. Find the width of a rectangle with length 45 m and perimeter 150 m.

$$W = \frac{\rho}{a} - \lambda$$

$$W = \frac{150}{2} - 45$$

Find the width of a rectangle with length 25 in and perimeter 94 in.

$$w = \frac{\rho}{2} - \ell$$

$$W = \frac{94}{2} - 25$$

6. Find the width of a rectangle with length 19 in and perimeter 56 in.

$$W = \frac{56}{3} - 19$$

Find the width of a rectangle with length 51 cm and perimeter 158 cm.

$$w = \frac{\rho}{2} - \lambda$$

$$W = \frac{158}{2} - 51$$