

Use the formula to find the volume, area, or perimeter.

1. $V = \ell \cdot w \cdot h$, when
 $\ell = 13$ ft, $w = 2$ ft, $h = 4$ ft _____

2. $A = \ell \cdot w$, when
 $\ell = 7$ yd, $w = 3$ yd _____

3. $P = 2\ell + 2w$, when
 $\ell = 3.6$ cm, $w = 2.1$ cm _____

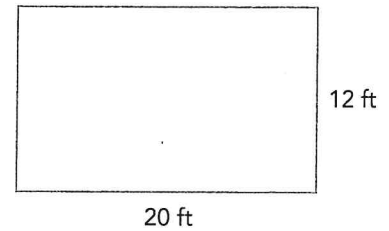
4. $P = 3s$, when $s = 7.5$ in. _____

5. The formula to convert from degrees Fahrenheit to degrees Celsius is $F = 1.8C + 32$. Find the temperature in Fahrenheit when $C = 5^\circ$.

6. To convert from inches to centimeters, use $c = 2.54i$. Find c , the number of centimeters equal to a number of inches, when $i = 3$ in.

Problem Solving

7. Liliana is building a rectangular pen for her chickens. The dimensions of the pen are shown. Liliana has 65 ft of fencing. Will she have extra fencing? Use a formula in your answer.



8. Sale price s is equal to the list price p minus the discount d . Write a formula for sale price. Then use the formula to determine the sale price, given a list price of \$27.50 and a discount of \$2.75.

Write About It ◇

9. Describe the difference between the volume formula for a rectangular box and the area formula for a rectangle.
