

Review Sections 7.1 - 7.4

Write the word sentence as an equation.

- 1. 3 increased by a number x is 9.
- 2. The product of a number y and 3 is 6.

Solve the equation. Check your solution.

3.
$$u + 3 = 7$$

4.
$$a-\frac{3}{4}=\frac{1}{8}$$

5.
$$y \div 9 = 81$$

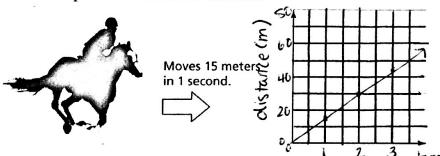
6.
$$15 \times b = 60$$

Tell whether the ordered pair is a solution of the equation.

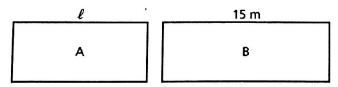
7.
$$y = 9x$$
; (4, 36)

8.
$$y = 3x - 5$$
; (7, 16)

9. Write and graph an equation in two variables that shows the relationship between time and distance.



10. The length of Garden B is 3 more than the length of Garden A. Write an equation you can use to find the length ℓ of Garden A.



- 11. Your bedroom ceiling is 10 feet high and is $\frac{2}{3}$ as high as the living room ceiling. Write and solve an equation to find the height h of the living room ceiling.
- ** 12. You leave your house and walk for half an hour at a speed of 3 miles per hour. Then you run for 15 minutes at a speed of 7 miles per hour. You are now halfway to town. Write and solve an equation to find the distance from your house to town.

Answers

6.
$$b = 4$$

10.
$$15 = 1 + 3$$

$$\binom{2}{4} = \frac{d}{2} \binom{2}{2}$$

$$\frac{13}{2} = d$$

$$\sqrt{\sum_{i=1}^{n} a_{i} \log a_{i}}$$