

**Solve each proportion. Show work.**

1. 
$$\frac{5}{15} = \frac{x}{x+8}$$

2. 
$$\frac{3x+3}{3} = \frac{7x-1}{5}$$

3. 
$$\frac{5}{x+2} = \frac{4}{x}$$

4. 
$$\frac{2x-1}{21} = \frac{3x-7}{15}$$

**Set up a proportion. Solve.**

5. If three apples cost 17 cents, find the cost of 15 apples.

6. If three tickets to a show cost \$13.20, find the cost of seven tickets.

7. If pop is being sold at the rate of 6 cans for \$2.40, how much will 15 cans cost?

8. How much would you pay for 5 apples at the rate of 96 cents for a dozen?

9. Tom makes an average of 7 free throws for every 10 attempts. At that rate, how many free throws will he make in 200 attempts?	10. A 40-acre field yields 600 bushels of wheat. At the same rate, what will a 75-acre field yield?
11. Lauren can travel 11 miles on her bicycle in 2 hours. At the same rate, how far can she travel in 5 hours?	12. Bob can travel 11 miles on his bicycle in 2 hours. At the same rate, how long will it take him to travel 44 miles?
13. Caren received \$185 for working 20 hours. At that rate of pay, how many hours must she work to receive \$259?	14. A house which is assessed for \$225,000 pays taxes of \$3375. What are the taxes on a house that is assessed at \$300,000?
15. The scale on a map is 1 inch equals 500 miles. If two cities are 875 miles apart, how far are they on this map?	16. The scale of a blue print is 1 inch equals 20 feet. If on the blueprint, the length is 1.25 inches, what is the actual length of the room?