

1) A player made 200 free throws out of 250 attempts. What is her ratio of made shots to missed shots?

2) A train traveled 1200 miles in 15 hours. Find the train's average speed in miles per hour.

3) Which is the better buy?

5.6-pound package of ground beef for \$4.86

8.1-pound package of ground beef for \$6.19

4) Convert 300 mph into feet per second.

5) A car traveled 54 mph. What is the car's speed in feet per second?

6) $1\text{qt}/\text{min} = \underline{\hspace{1cm}} \text{gal}/\text{week}$?

7) Write as a ratio in lowest terms: 30 yards to 420 feet.

8) A car traveled 330 miles in 6 hours. At this rate, how far would the car travel in 10 hours?

9) The scale of a map reads 3 in. = 20 miles. What is the actual distance represented by $19\frac{1}{2}$ inches on the map?

10) True or False? $\frac{6xy}{8x^2} = \frac{3y^2}{4xy}$

11) Solve for x: $\frac{3}{5} = \frac{x}{9}$

12) Solve for x: $\frac{5}{x-3} = \frac{20}{x+3}$

13) Solve for x: $\frac{x}{16} = \frac{4}{x}$

14) 8 out of every 30 people on a field trip are adults. If there are 110 children on the trip, how many adults were on the trip?

15) A gasoline and oil mixture for a certain engine must be in a ratio of 8:1. How many gallons of gas should be used for a 45 gallon mixture?

16) Allen and Bobby shovel snow and earn \$300. They decide that since Allen had to leave early, they will split the money in a ratio of 2:3. How much money should each boy receive?

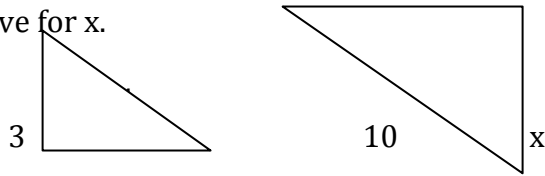
17) The measures of the angles of a triangle are in a ratio of 2:3:4. Find the measure of each angle of the triangle.

18) Two numbers are in a ratio of 5:8. When the larger is reduced by 10 and the smaller is increased by 11, the numbers become equal. Find the original numbers.

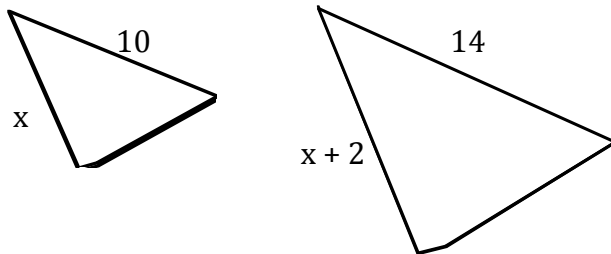
19) A baseball player has 109 hits in 452 at bats. How many hits in a row would he need to get in order to increase his hits to at bats ratio to 3:10?

20) A tree casts a shadow 7.5 ft long. A woman 5 ft tall casts a shadow 3 ft long. How tall is the tree?

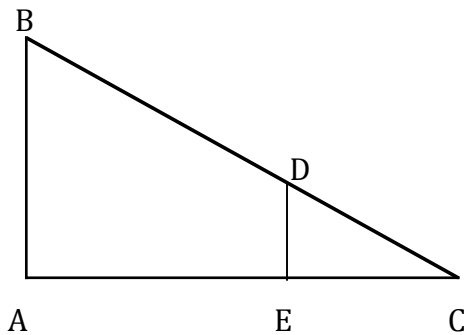
21) $\triangle ABC \sim \triangle DEF$. Solve for x .



22) The triangles shown are similar. Find x .



23) $ABC \sim EDC$. $AE = 15$, $EC = 5$, $AB = x$ and $DE = x - 4$. Find sides AB and DE .



Answers
1. 4:1
2. 80 mph
3. 5.6 lb package is \$0.87/lb; 8.1lb package is \$0.76/lb
4. 440 ft/sec
5. $79 \frac{1}{5}$ ft/sec
6. 2,520 gal/wk
7. 3:14
8. 550 miles
9. 130 mi
10. True
11. $x = 5 \frac{2}{5}$
12. $x = 5$
13. $x = 8$ or -8
14. 40 adults
15. 40 gallons of gas
16. Allen: \$120 Bobby: \$180
17. 40° , 60° , 80°
18. 35, 56
*19. 38 hits in a row
20. $12 \frac{1}{2}$ ft tall
21. $x = 7 \frac{1}{2}$
22. $x = 5$
23. $AB = 5 \frac{1}{3}$; $DE = 1 \frac{1}{3}$