

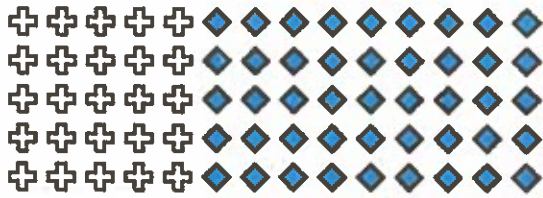
Name : _____

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Teacher : _____

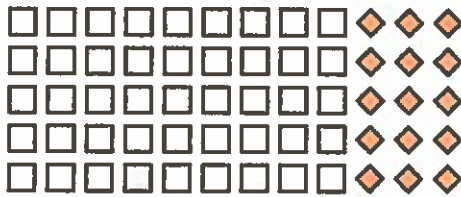
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Find the Ratios



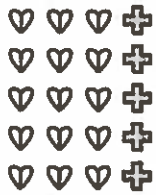
What is the ratio of
 ✚ to ◆ ? = _____ : _____ = _____ : _____ Simplified

What is the ratio of
 ◆ to (✚ + ◆) ? = _____ : _____ = _____ : _____



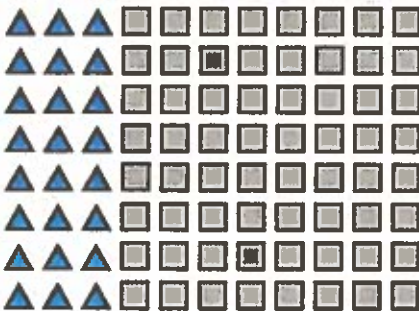
What is the ratio of
 □ to ◆ ? = _____ : _____ = _____ : _____ Simplified

What is the ratio of
 ◆ to (□ + ◆) ? = _____ : _____ = _____ : _____



What is the ratio of
 ♥ to ✚ ? = _____ : _____ = _____ : _____ Simplified

What is the ratio of
 ✚ to (♥ + ✚) ? = _____ : _____ = _____ : _____



What is the ratio of
 ▲ to ■ ? = _____ : _____ = _____ : _____ Simplified

What is the ratio of
 ■ to (▲ + ■) ? = _____ : _____ = _____ : _____



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Equivalent Ratios

Write two equivalent ratios.

1)

5		
12		

2)

3		
11		

3)

7		
11		

4)

7		
9		

5)

6		
7		

6)

4		
11		

Determine whether the ratios are equivalent.

7) $\frac{7}{8}$ and $\frac{49}{56}$ _____

8) $\frac{7}{6}$ and $\frac{2}{9}$ _____

9) $\frac{8}{11}$ and $\frac{5}{6}$ _____

10) $\frac{11}{10}$ and $\frac{11}{3}$ _____

11) $\frac{2}{11}$ and $\frac{6}{33}$ _____

12) $\frac{2}{5}$ and $\frac{6}{15}$ _____

Use equivalent ratios to find the unknown value.

13) $\frac{36}{c} = \frac{12}{11}$ c = _____

14) $\frac{n}{20} = \frac{3}{5}$ n = _____

15) $\frac{4}{3} = \frac{v}{15}$ v = _____

16) $\frac{11}{4} = \frac{v}{24}$ v = _____

17) $\frac{4}{9} = \frac{20}{y}$ y = _____

18) $\frac{n}{20} = \frac{9}{10}$ n = _____



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Ratios and Rates

Express each phrase as a rate and unit rate.
(Round your answer to the nearest hundredth.)

Rate

Unit Rate

1) 4 calculators cost \$160.00

2) mowed 3 yards for \$15.00

3) 3 inches of snow in 4 hours

4) 10 batteries cost 28 dollars

5) 7 chocolate bars cost 20 dollars

6) 7 dollars for 3 cans of tuna

7) 5 pencils for 13 dollars

8) 12 dollars for 8 books

9) 6 movie tickets cost \$45.00

10) 80 miles on 9 gallons of gas



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Converting Between Percents, Decimals, and Fractions

Convert Decimal to Percent

$0.83 =$

$1.55 =$

$0.42 =$

$0.68 =$

$0.89 =$

$1.73 =$

Convert Percent to Decimal

$142 \% =$

$193 \% =$

$26.9 \% =$

$31.6 \% =$

$67.6 \% =$

$21 \% =$

Convert Decimal to Fraction

$1.36 =$

$0.687 =$

$1.54 =$

$0.343 =$

$1.54 =$

$0.18 =$

Convert Fraction to Decimal

$\frac{12}{20} =$

$\frac{21}{25} =$

$\frac{31}{40} =$

$\frac{15}{16} =$

$\frac{74}{50} =$

$\frac{7}{20} =$

Convert Fraction to Percent

$\frac{5}{8} =$

$\frac{34}{50} =$

$\frac{87}{50} =$

$\frac{31}{20} =$

$\frac{25}{20} =$

$\frac{7}{8} =$

Convert Percent to Fraction

$58.9 \% =$

$89 \% =$

$108 \% =$

$16 \% =$

$183 \% =$

$14.8 \% =$





Solve each problem.

- 1) What is 150% of 18?
- 2) What is 100% of 158?
- 3) What is 10% of 90?
- 4) What is 200% of 190?
- 5) What is 200% of 54?
- 6) What is 25% of 192?
- 7) What is 10% of 100?
- 8) What is 125% of 92?
- 9) What is 150% of 38?
- 10) What is 10% of 190?
- 11) What is 125% of 88?
- 12) What is 50% of 108?
- 13) What is 100% of 11?
- 14) What is 150% of 128?
- 15) What is 25% of 56?
- 16) What is 200% of 156?
- 17) What is 50% of 118?
- 18) What is 25% of 72?
- 19) What is 125% of 92?
- 20) What is 100% of 56?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



Solve each problem.

Answers

9	115	57	380
10	158	108	54
48	110	19	27

- 1) What is 150% of 18?
- 2) What is 100% of 158?
- 3) What is 10% of 90?
- 4) What is 200% of 190?
- 5) What is 200% of 54?
- 6) What is 25% of 192?
- 7) What is 10% of 100?
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- 9) What is 150% of 38?
- 10) What is 10% of 190?
- 11) What is 125% of 88?
- 12) What is 50% of 108?

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- 11. _____
- 12. _____

Name : _____

Score : _____

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Word Problems

- 1) Joan receives a \$24000 salary for working as an accountant. If Joan spends 50.00% of her salary on expenses each year, then how much money does Joan have to spend on expenses? Round your answer to the nearest whole number if necessary. _____
- 2) For one History test, Jess had to answer 32 questions. Of these 32 questions, Jess answered 20 of them correctly. What percent did Jess get on her History test? Round your answer to the nearest hundredth if necessary. _____
- 3) At a local department store, pants typically cost \$37. However, due to a special, the pants are reduced to \$25. What percent of the original price has the pants been reduced to? Round your answer to the nearest hundredth if necessary. _____
- 4) Fred decided to look at new and used trucks. Fred found a used truck for \$30000. Fred found that he paid 71.43% of the price of a new truck. How much would a new truck cost? Round your answer to the nearest whole number if necessary. _____
- 5) At a construction job for a gallery there are 31 painters. Of these painters, 61.29% of them paint the interior of the gallery. How many painters are painting the interior? Round your answer to the nearest whole number if necessary. _____
- 6) One baseball team played 37 games throughout their entire season. If this baseball team won 67.57% of those games, then how many games did they win? Round your answer to the nearest whole number if necessary. _____
- 7) In one particular suburb, there are 12 families that own a boxer. If these owners make up 50.00% of all dog owners in this suburb, then how many dog owners are there in this neighborhood? Round your answer to the nearest whole number if necessary. _____
- 8) While mining, Nancy found a large metal bar that weighed 48 grams. Nancy was also able to determine that the bar had 36 grams of zinc. What percent of the weight of the bar was zinc? Round your answer to the nearest hundredth if necessary. _____
- 9) 9 of the students in a History class passed a History test. If these students are 42.86% of all the students in the class, how many students are in this History class? Round your answer to the nearest whole number if necessary. _____
- 10) Mary went to her local zoo that featured 31 whale exhibits. If these whale exhibits make up 72.09% of the zoo's exhibits, then how many exhibits does the zoo have in total? Round your answer to the nearest whole number if necessary. _____

