

Solving Ratio, Proportion, and Percent Story Problems

1. A 12-ounce bottle of shampoo lasts Enrique 16 weeks. How long would you expect an 18-ounce bottle of the same brand to last him?

a) 24 Weeks b) 24-ounce bottle

c) 10.6 Weeks d) 10.6-ounce bottle
2. The waiting time to ride a roller coaster is 20 minutes when 150 people are in line. How long is the waiting time when 240 people are in line?

a) 32 People b) 32 Min.

c) 12.5 Min. d) 12.5 People
3. Just For Feet has 3,115 boxes of shoes on 38 equal size shelves. If they plan on adding 9 more shelves of the same size, how many more boxes of shoes will they be able to hold?

a) 737 shoes b) 737 shelves

c) 738 shoes d) 738 shelves
4. A cake recipe calls for 1.5 cups of milk and 3 cups of flour. Seth made a mistake and used 5 cups of flour. How many cups of milk should he use to keep the proportions correct?

a) 2.5 cups milk b) 1.75 cups milk

c) 2 cups flour d) 2.25 cups milk

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6. A baseball pitcher won 80% of the games he pitched. If he pitched 35 ballgames, how many games did he win?
- a) 28 games b) 50 games
- c) 35 games d) 30 games
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7. The Royals softball team played 75 games and won 55 of them. What percent of the games did they lose? (round to the nearest tenth)
- a) 70% b) 60%
- c) 73.3% d) 75.3%

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10. In an animal shelter, the ratio of dogs to cats is 5 to 3. There are 25 dogs. Write and solve a proportion to find the number c of cats.

a) $c=15$

b) $c=18$

c) $c=21$

d) $c=16$

11. Josh bought a pizza with eight slices of pizza for \$12. What is the cost of a slice of pizza?

a) \$12

b) \$1.50

c) \$3

d) \$1

12. Which TWO serves earned the highest amount in tips?

a) Emma earned 15% tip on a bill for \$33.20. b) Ellie earned 22% tip on a bill for \$28.42.

c) Mick earned 20% tip on a bill for \$18.53. d) Ben earned 18% tip on a bill for \$24.50.

e) Sally earned 10% tip on a bill for \$36.70.

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13. A pair of shoes is on sale at 30% off the original price. If the original price is \$50, what is the sale price?

a) \$15

b) \$35

c) \$20

d) \$65

14. Dr. Hall files 320 insurance claims every month. If 5% of those claims are **rejected**, how many of the claims are **accepted**?

a) 304

b) 16

c) 300

d) 20

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15. A bag of marbles comes with 3 blue marbles, 2 red marbles, and 5 yellow marbles. What is the ratio of red to yellow?

a) 2 to 5

b) 5 to 3

c) 3 to 5

d) 5 to 2

16. Determine if the ratios are proportional.
 $\frac{4}{5}$ and $\frac{15}{20}$

a) Yes

b) No

17. A parking lot has 117 spaces total. If 36 of the spaces have cars in them, what is the ratio of empty spaces to filled spaces?

a) 117:36

b) 36:117

c) 36:81

d) 81:36

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18. Shirley spelled 12 of her 15 spelling words correctly on the test. What percent grade did Shirley get on the test?

a) 40%

b) 50%

c) 80%

d) 60%

19. Sarah earns \$20 a day working after school. She spent 30% of her daily earnings on Monday. How much money did she spend on Monday?

a) \$1.40

b) \$6

c) \$0.60

d) \$14

20. 15 out of 25 boys chose to go swimming at camp. What percent is that?

a) 15%

b) 20%

c) 45%

d) 60%