

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
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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8. Manuel found a wrecked Trans-Am that he could fix. He bought the car for 65% of the original price of \$7200. What did he pay for the car? (Round to nearest dollar)
- ☐ a) \$4680 ☐ b) \$4000
- ☐ c) \$4500 ☐ d) \$1
9. Jeff ran 6 miles in 4 hours. At this rate, how many miles will he run in 6 hours?
- ☐ a) 9 miles ☐ b) 4 miles
- ☐ c) 6 miles ☐ d) 36 miles

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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%