

Proportions & Percent

Fractions, Decimals & % · Grade 7

Score: _____ / 10

● Easy · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. A paint mixture uses red and blue in ratio 2:3. If you use 8 litres of red, how much blue do you need?

Answer: _____

2. A car travels 120 miles in 3 hours. Find the unit rate (mph).

Answer: _____

3. If 4 pencils cost \$1.20, find the cost per pencil.

Answer: _____

4. A recipe uses 3 cups flour for 12 cookies. How much flour for 20 cookies?

Answer: _____

5. If 5 books cost \$35, find the cost per book.

Answer: _____

6. A truck uses 8 gallons to drive 240 miles. Find miles per gallon.

Answer: _____

7. Simplify the ratio 12:18.

Answer: _____

8. A class has 10 boys and 15 girls. Write the boy-to-girl ratio in simplest form.

Answer: _____

9. If 6 oranges cost \$9, find the cost per orange.

Answer: _____

10. A typist types 60 words in 2 minutes. Find words per minute.

Answer: _____

Answer Key

Proportions & Percent — Easy

1. 12 litres

$2:3 \rightarrow 8:(8 \times 3/2) = 8:12$. Blue = 12 litres.

2. 40

$120 \div 3 = 40$ mph.

3. \$0.30

$\$1.20 \div 4 = \0.30 per pencil.

4. 5 cups

Unit rate: $3/12 = 1/4$ cup per cookie. $20 \times 1/4 = 5$ cups.

5. \$7

$\$35 \div 5 = \7 per book.

6. 30

$240 \div 8 = 30$ mpg.

7. 2:3

Divide both by GCF 6: $12 \div 6 = 2$, $18 \div 6 = 3$. Ratio is 2:3.

8. 2:3

$10:15 \div 5 = 2:3$.

9. \$1.50

$\$9 \div 6 = \1.50 per orange.

10. 30

$60 \div 2 = 30$ wpm.