

Percents as Rates per 100

Grade 6 math · Worksheet · Standards: 6.RP.A.3c

Name: _____ Date: _____ Class: _____

These 20 problems cover percent as a rate per 100, conversions among percents, fractions and decimals, finding a percent of a quantity, and finding the whole from a part.

The last six problems are word problems about tips, sales, surveys and growth. They train standard 6.RP.A.3c.

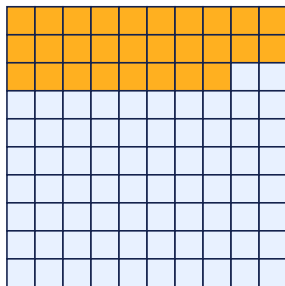
Standards: 6.RP.A.3c · **Level:** Grade 6

Problem 1 Meaning of Percent (easy)

Write 45% as a ratio per 100, as a fraction in simplest form, and as a decimal.

Problem 2 Reading a Hundred Grid (easy)

A hundred grid has some squares shaded. Write the shaded part as a percent, a decimal, and a simplest-form fraction.



28 squares are shaded.

Problem 3 Fractions to Percents (easy)

Write each fraction as a percent: (a) $\frac{3}{4}$ (b) $\frac{7}{20}$ (c) $\frac{1}{8}$.

Problem 4 Decimals to Percents (easy)

Write each decimal as a percent: (a) 0.62 (b) 0.07 (c) 1.4.

Problem 5 Percents to Fractions (easy)

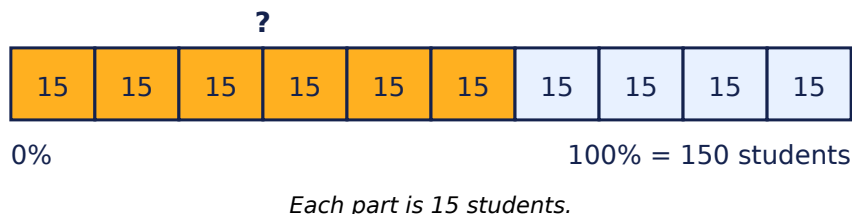
Write each percent as a fraction in simplest form: (a) 40% (b) 85% (c) 6%.

Problem 6 Percent of a Number (easy)

Find (a) 30% of 80 (b) 15% of 60 (c) 8% of 250.

Problem 7 Percent Bar Model (medium)

The bar represents the 150 students in a grade. Each part is the same size, and 6 parts are shaded for the students who play a sport. How many students play a sport, and what percent is that?

**Problem 8 Finding the Percent** (medium)

Find the percent: (a) 21 of 28 free throws were made (b) 9 of 36 students walk (c) 14 of 40 seats are empty.

Problem 9 Ordering Numbers (medium)

Order from least to greatest: 0.45, $\frac{3}{8}$, 41%, $\frac{2}{5}$.

Problem 10 A Decimal Percent (medium)

Find 12.5% of 480.

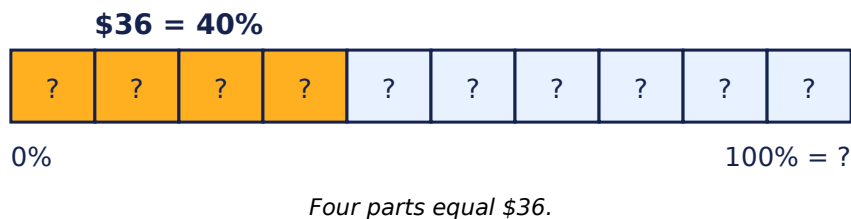
Problem 11 Finding the Whole (medium)

Find the whole. (a) 18 is 30% of what number? (b) 24 is 15% of what number?

Problem 12 Whole from a Bar Model (medium)

A bike helmet is on sale. The bar shows that \$36 is 40% of its original price. Find the original

price.

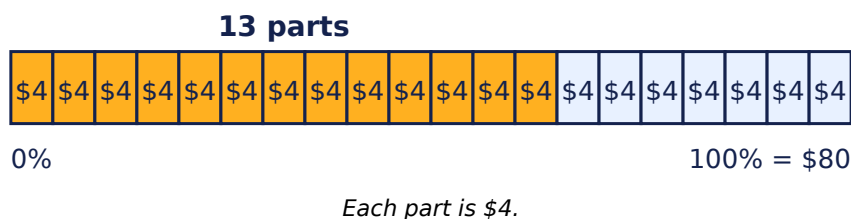


Problem 13 More Than 100 Percent (medium)

This year a school store sold 130% of last year's \$2,400 in sales. How much did it sell this year?

Problem 14 Savings Bar (medium)

A bar shows a \$80 savings goal split into 20 equal parts of \$4. Thirteen parts are shaded. How much money is saved, and what percent of the goal is that?



Problem 15 Restaurant Tip (hard)

A dinner bill is \$64. A family leaves an 18% tip. How much is the tip, and what is the total paid?

Problem 16 Jacket Sale (hard)

A \$85 jacket is 40% off. What is the discount, and what is the sale price?

Problem 17 Survey Results (hard)

In a survey, 35% of the students chose pizza, and that was 63 students. How many students were surveyed, and how many did not choose pizza?

Problem 18 Town Growth (hard)

A town of 4,200 people grows by 15% in ten years. What is the new population?

Problem 19 Fundraiser Goal (hard)

A club wants to raise \$2,500. By Friday it has raised 84% of the goal, and on Saturday it raises \$275 more. What percent of the goal has been reached, and how much is still needed?

Problem 20 Comparing Discounts (hard)

Store A sells a \$120 coat at 25% off. Store B sells a \$110 coat at 15% off. Which coat costs less after the discount, and by how much?