

Basics of Percent Problems

Practice

Percents (“Percent-Box Method”)

Percent Applications

Percents (“is/of” Method)

Percent to Decimal / Decimal to Percent

Decimals to Fractions

Fractions to Decimals

Fractions to Percents

Percents to Fractions

Percents, Fractions, and Decimals

Comparing Percents, Fractions, and Decimals

Percents (“Percent-Box Method”)

Part	Percent
Whole	100

=

Finding Percent

Problem #1: Seven is what percent of 35?

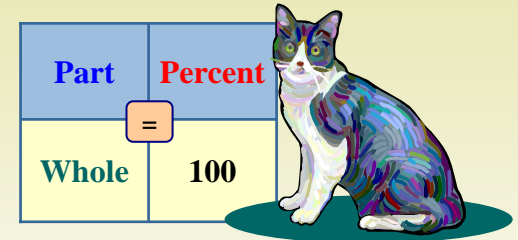
Finding Part

Problem #2: What number is 80% of 15?

Finding Whole

Problem #3: 36 is 40% of what number?

Percent Applications



Problem #4: A newspaper poll stated that 40% of the people in Jeremyville liked cats. If there were 2.5 million residents in Jeremyville, how many liked cats?

- a.) 1,000
- b.) 10,000
- c.) 100,000
- d.) 1,000,000

Percents (“is/of” Method)

$$\frac{\%}{100} = \frac{\text{is}}{\text{of}}$$

Finding Part

Problem #5: 85% of 40 is what number?

Finding Percent

Problem #6: What percent of 75 is 12?

Finding Base

Problem #7: 22% of what number is 11?

Percent to Decimal / Decimal to Percent

Express Percents as Decimals Using a Shortcut

Problem #8: Write 2.3% as a decimal.

Problem #9: Write 120% as a decimal.



Express Decimals as Percents Using a Shortcut

Problem #10: Select the correct percent for 0.06.

- a.) 0.06% b.) 0.6% c.) 6% d.) 60%

Problem #11: Write 0.059 as a percent.

Decimals to Fractions

Problem #12: Write 0.85 as a fraction.



Problem #13: Write 9.8 as a fraction.

Fractions to Decimals

Problem #14: Write a decimal for $\frac{3}{5}$.



Problem #15: Write a decimal for $\frac{8}{9}$ and round to the nearest hundredth.

Fractions to Percents

Problem #16: What is the correct percent for $\frac{5}{2}$?

- a.) 2.5% b.) 40% c.) 400% d.) 250%



Problem #17: What is the correct percent for $3\frac{5}{6}$?

Round the answer to the nearest hundredth of a percent.

- a.) 3.83% b.) 383.33% c.) 383% d.) 38.33%

Percents to Fractions

Problem #18: Write 8% as a fraction.



Problem #19: Write $33\frac{1}{3}\%$ as a fraction.



Percents, Fractions, and Decimals

Problem #20: Write 15% as a fraction.

Problem #21: Write $\frac{1}{5}$ as a decimal.

Problem #22: Write 0.07 as a percent.

Comparing Percents, Fractions, and Decimals

Problem #23: What is the greatest number in the given set?

$$\left\{\frac{3}{5}, 0.5, 6\%, \frac{1}{2}\right\}$$



Problem #24: Order the list from least to greatest.

$$\frac{4}{5}, 0.008, 8\%, 8\frac{1}{8}\%$$

Answers

Problem #1: 20%

Problem #2: 12

Problem #3: 90

Problem #4: Choice "d".

Problem #5: 34

Problem #6: 16%

Problem #7: 50

Problem #8: 0.023

Problem #9: 1.2

Problem #10: Choice "c".

Problem #11: 5.9

Problem #12: $\frac{85}{100} = \frac{17}{20}$

Problem #13: $9 \frac{8}{10} = 9 \frac{4}{5}$

Problem #14: 0.6

Problem #15: 0.89

Problem #16: Choice "d".

Problem #17: Choice "b".

Problem #18: $\frac{2}{25}$

Problem #19: $\frac{1}{3}$

Problem #20: $\frac{3}{20}$

Problem #21: 0.2

Problem #22: 7%

Problem #23: $\frac{3}{5}$

Problem #24: 0.008, 8%, $8 \frac{1}{8}\%$, $\frac{4}{5}$

