

NAME: _____

Purpose

To change ratios and fractions to percents

Math Words

ratio Percent is a ratio that compares a number to 100.

compared to You can write the ratio 3 compared to 100 several ways, such as:

$$3:100 \quad \frac{3}{100} \quad 0.03 \quad 3\%$$

per hundred 32% means 32 for every hundred, or 32 per hundred.

Starter Problem

24 out of 60 kids surveyed have attended a professional sporting event. Write the percent for this ratio.

$$\frac{24}{60} = \underline{\hspace{2cm}} \%$$

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Student Thinking



Abby

I could divide 60 into 24 to get a decimal, but it's easier to simplify first. $\frac{24}{60}$ is equal to $\frac{2}{5}$. Then I divided 2 by 5 to get 0.40 or 40%.

It makes sense because 24 out of 60 is a little less than half of the kids.



$$\frac{24}{60} = \frac{2}{5} = 0.40 = 40\%$$



Walt

I divided 24 into 60 and got 25%.

$$\begin{array}{r} 25 \\ 24 \overline{) 60.0} \\ \underline{48} \\ 120 \\ \underline{120} \\ 0 \end{array} \qquad \frac{24}{60} = \underline{25\%}$$



Things to Remember

- * _____
- * _____
- * _____



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Our Turn

Write the percent for each ratio.

1. $\frac{6}{40} = \underline{\hspace{2cm}} \%$

2. $\frac{8}{5} = \underline{\hspace{2cm}} \%$

3. Carlos paid a \$2 shipping charge for a package of art supplies that cost \$10. What percent of the total costs did he pay for shipping? (Round your answer to the nearest tenth of a percent.)

$\frac{2}{12} \approx \underline{\hspace{2cm}} \%$

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My Turn

Write the percent for each ratio.

1. $\frac{3}{8} = \underline{\hspace{2cm}} \%$

2. $\frac{80}{40} = \underline{\hspace{2cm}} \%$

3. A school paper reported that 10 out of every 15 students wore a school T-shirt on Friday. What percent is this? (Round your answer to the nearest tenth of a percent.)

$$\frac{10}{15} \approx \underline{\hspace{2cm}} \%$$

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Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. $\frac{17}{20} =$ _____

 3% 8.5% 11.8% 85%

2. $\frac{5}{6} \approx$ _____

 0.83% 1.2% 83.3% 56%

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Writing Task Mini Lesson

Explain how you know $\frac{21}{24}$ equals 87.5%.

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