6.2 Fractions, Decimals, and Percents
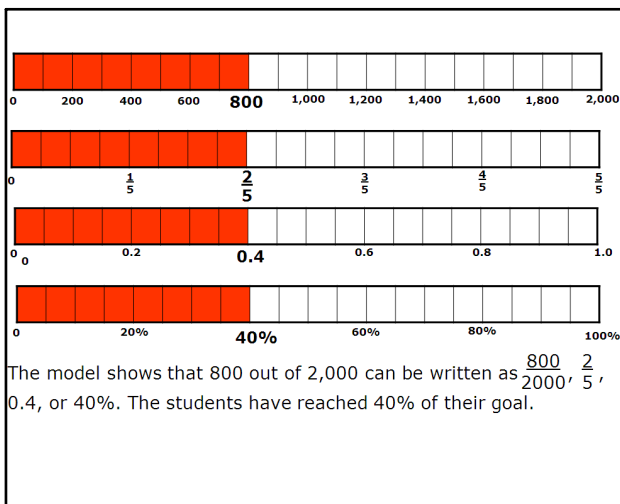
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Apr 15-8:14 AM

The students at Westview Middle School are collecting cans of food for the local food bank. Their goal is to collect 2,000 cans in one month. After 10 days, they have 800 cans of food. What *percent* of their goal have they reached?

$$\frac{800}{2000} = \frac{8}{20} = \frac{4}{10} = \frac{2}{5}$$

$$.4 \qquad \frac{2}{5} \cdot \frac{\cdot 20}{\cdot 20} = \frac{40}{100} = 40\%$$

Apr 7-8:40 AM

The model shows that 800 out of 2,000 can be written as $\frac{800}{2000}$, $\frac{2}{5}$, 0.4, or 40%. The students have reached 40% of their goal.

Apr 7-8:42 AM

Write 0.7 as a percent.

$$0.7 = \frac{7}{10} = \frac{70}{100}$$

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Write 0.7 as a percent.

Method 2: Use mental math.

$$0.7 = 70\%$$

Apr 7-8:42 AM

Write 0.3 as a percent.

$$0.3 = 30\%$$

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Write 0.9 as a percent.

$$0.9 = \frac{9}{10} = \frac{90}{100}$$

$$90\%$$

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Write $\frac{5}{8}$ as a percent.

$$\frac{5 \cdot 12.5}{8 \cdot 12.5} = \frac{62.5}{100}$$

$$= 62.5\%$$

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Write $\frac{5}{8}$ as a percent.

$$\frac{5}{8}$$

$$8\overline{)5.0}^{\,0.6}$$

$$\frac{5}{8} = 5 \div 8$$

$$= .625$$

$$= 62.5\%$$

Remember!

To divide 5 by 8, use long division and place a decimal point followed by a zero after the 5.

$$8\overline{)5.00}^{\,.625}$$

May 10-9:10 AM

Write $\frac{3}{5}$ as a percent.

$$\frac{3}{5} = 0.6$$

$$60\%$$

$$5\overline{)3.0}^{\,.6}$$

$$D)N$$

Apr 7-8:45 AM

If 27 out of 50 people have the newspaper delivered to their home, what percent of these people have the newspaper delivered to their home?

$$\frac{27}{50} = \frac{54}{100} \quad 54\%$$

If 10 out of 50 students have blue backpacks, what percent of the students have blue backpacks?

$$\frac{10}{50} = \frac{20}{100} = 20\%$$

Apr 7-8:45 AM

Lesson Quiz

1. Write 0.65 as a percent. 65%

2. Write $\frac{6}{10}$ as a percent. 60%

Choose the most useful method of computation. Then solve.

3. If 36 out of 80 people surveyed have been on a boat, what percent of these people have been on a boat?

$$\frac{36}{80} = .45 = 45\%$$

Apr 7-8:45 AM