

Math 8 Extra Practice 1

Lesson 5.1: Relating Fractions, Decimals and Percents

- Write each percent as a fraction and as a decimal.
a) 24.5% b) $2\frac{4}{5}\%$ c) 73.25% d) $99\frac{3}{4}\%$
- Use a hundredths chart to represent 1%.
Shade the chart to represent each percent.
a) 0.3% b) 0.55% c) 0.04% d) 0.9%
e) 0.335% f) 0.5525% g) 0.0475% h) $\frac{1}{5}\%$
- Write each fraction as a decimal and as a percent.
a) $\frac{5}{200}$ b) $\frac{3}{150}$ c) $\frac{12}{500}$ d) $\frac{9}{300}$
e) $\frac{16}{400}$ f) $\frac{12}{250}$ g) $\frac{15}{600}$ h) $\frac{28}{800}$
- Write each percent as a fraction and as a decimal.
a) 0.7% b) 0.44% c) 0.15% d) 0.9%
e) 0.92% f) 0.27% g) 0.55% h) 0.36%
- Write each decimal as a fraction and as a percent.
a) 0.221 b) 0.003 c) 0.2225 d) 0.0095
e) 0.016 f) 0.375 g) 0.1875 h) 0.0031
- Elaine scored 19 out of 24 on her science test.
Addison had 81.25% on the same test.
Who did better?
How do you know?
- During a school tournament, Team A had 10 of its 12 team members present.
Team B had 13 of its 15 players present.
Which team had the lesser percent of its team present at the tournament?

Math 8 Extra Practice 2

Lesson 5.2: Calculating Percents

- Write each percent as a decimal.
Draw a diagram or number line to illustrate each answer.
 - 275%
 - 156%
 - 320%
 - 0.25%
 - 0.5%
 - 0.58%
- Write each fraction as a percent.
Draw diagrams to illustrate your answers.
 - $\frac{6}{5}$
 - $\frac{45}{40}$
 - $\frac{15}{3}$
 - $\frac{9}{6}$
 - $\frac{60}{25}$
 - $\frac{9}{2}$
- Find each percent of the number.
Draw a diagram to illustrate each answer.
 - 400% of 240
 - 40% of 240
 - 4% of 240
 - 0.4% of 240
 - What patterns do you see in your answers in part a?
 - Use the patterns in part a to find each percent.
 - 4000% of 240
 - 0.04% of 240
- One hundred sixty students attended Music Night on Thursday night.
The attendance on Friday night was 120% of the attendance on Thursday night.
The attendance on Saturday night was 75% of the attendance on Friday night.
 - How many people attended Music Night on Friday night?
 - How many people attended on Saturday night?
 - What was the total attendance for the 3 nights?
- A house was purchased for \$450 000.
Three years later, the house was sold for 124% of its purchase price.
 - What was the selling price of the house?
 - Estimate to check your answer.
 - By how much did the value of the house increase over the three years?
- In a 500-word assignment, the teacher noted that 1.2% of the words were incorrectly spelled.
 - How many words were correctly spelled?
 - Estimate to check your answer.