

Chapter 2 Lesson 4-6 Study Guide

Write each percent as a fraction in simplest form.

1. 200% $\frac{200}{100} = \frac{2}{1}$

2. 301% $\frac{301}{100}$ or $3\frac{1}{100}$

3. 0.2% $\frac{.2}{100} = .002 = \frac{2}{1000} = \frac{1}{500}$

4. 0.05% $\frac{.05}{100} = .0005 = \frac{5}{10,000} = \frac{1}{2000}$

Write the percent as a decimal.

5. 178% 1.78

← Move decimal 2x, because we are dividing by 100

6. 564% 5.64

7. 0.4% .004

8. 0.98% .0098

→ Move decimal 2x, because we are multiplying by 100.

Write each decimal as a percent.

9. 10.9 $\frac{1090}{100} = 1090\%$

10. 0.005 $\frac{.5}{100} = .5\%$

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Replace each \bigcirc with $<$, $>$, or $=$ to make a true statement.

11. $\frac{1}{2} \bigcirc \frac{3}{4}$ $\frac{2}{4} < \frac{3}{4}$ Try equivalent fractions to help.

12. $\frac{8}{25} \bigcirc 30\%$
 $\frac{8}{25} > \frac{30}{100}$
 $\frac{32}{100} \quad \frac{30}{100}$

13. $\frac{7}{20} \bigcirc 0.87$
 $\frac{7}{20} < \frac{87}{100}$
 $\frac{35}{100}$

Think: 7 out of 20 is less than half
 • 87 is more than half.

Order the set of numbers from least to greatest.

14. $\frac{31}{50}, 0.5, 0.31$ $\frac{31}{50} = \frac{62}{100}$ $\cdot 31, \cdot 5, \frac{31}{50}$
 $\downarrow \quad \downarrow \quad \downarrow$
 $\cdot 62, \cdot 5, \cdot 31$

15. $\frac{4}{5}, \frac{9}{10}, \frac{1}{4}, \frac{1}{8}$
 $\frac{32}{40}, \frac{36}{40}, \frac{10}{40}, \frac{5}{40}$ $\frac{1}{8}, \frac{1}{4}, \frac{4}{5}, \frac{9}{10}$

TRY EQUIVALENT FRACTIONS

Estimate each percent.

17. 83% of 196 ≈ 160
 $\frac{80}{100} = \frac{160}{200}$

18. 26% of 399 ≈ 104
 $\frac{26}{100} \cdot 4 = \frac{104}{400}$

19. 55% of 12 ≈ 5.5
 $\frac{55}{100} \cdot 10 = \frac{5.5}{10}$
 $\div 10$