Name _____ Date _____ Class _____

LESSON 6-1

Review for Mastery

Percents

To change a percent to a fraction:

- drop the percent symbol;
- write the percent as the numerator of a fraction; $45\% = \frac{45}{100} = \frac{9}{20}$
- write 100 as the denominator;
- simplify.

Write each percent as a fraction in simplest form.

1. $38\% = \frac{\quad}{100} = \_\_\_\_\_$
2. $20\% = \frac{\quad}{100} = \_\_\_\_\_$
3. $70\% = \frac{\quad}{100} = \_\_\_\_\_$
4. $16\% = \frac{\quad}{100} = \_\_\_\_\_$
5. $36\% = \frac{\quad}{100} = \_\_\_\_\_$
6. $8\% = \frac{\quad}{100} = \_\_\_\_\_$
7. $15\% = \_\_\_\_\_$
8. $53\% = \_\_\_\_\_$
9. $24\% = \_\_\_\_\_$
10. $17\% = \_\_\_\_\_$

To change a percent to a decimal:

- drop the percent symbol; $45\% = .45. = 0.45$
- move the decimal point two places to the left. $7\% = .07. = 0.07$

Write each percent as a decimal.

11. 58% _____
12. 93% _____
13. 15% _____
14. 9% _____
15. 26% _____
16. 2% _____
17. 80% _____
18. 1% _____
19. 23.5% _____
20. 9.6% _____
21. 40.7% _____
22. 7.03% _____

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LESSON 6-2

Review for Mastery

Fractions, Decimals, and Percents

To change a decimal to a percent:

- move the decimal point two places to the right; $0.07 = .07. = 7\%$
- write the % symbol after the number.

Write each decimal as a percent.

1. 0.34 _____
2. 0.06 _____
3. 0.93 _____
4. 0.57 _____
5. 0.8 _____
6. 0.734 _____
7. 0.082 _____
8. 0.225 _____
9. 0.604 _____
10. 0.09 _____
11. 0.518 _____
12. 0.039 _____

To change a fraction to a percent:

- Divide the numerator by the denominator.
- Move the decimal point 2 places to the right

$\frac{8}{25} = 8 \div 25 = 0.32$

$= 0.32 = 32\%$

You can also set it equal to 100 if your denominator is compatible with 100.

$\frac{8}{25} = \frac{x}{100}$

Write each fraction as a percent.

13. $\frac{3}{10}$ _____
14. $\frac{2}{50}$ _____
15. $\frac{7}{20}$ _____
16. $\frac{1}{5}$ _____
17. $\frac{1}{8}$ _____
18. $\frac{3}{25}$ _____
19. $\frac{3}{4}$ _____
20. $\frac{23}{40}$ _____
21. $\frac{11}{20}$ _____
22. $\frac{43}{50}$ _____
23. $\frac{24}{25}$ _____
24. $\frac{7}{8}$ _____

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LESSON 6-4

Review for Mastery

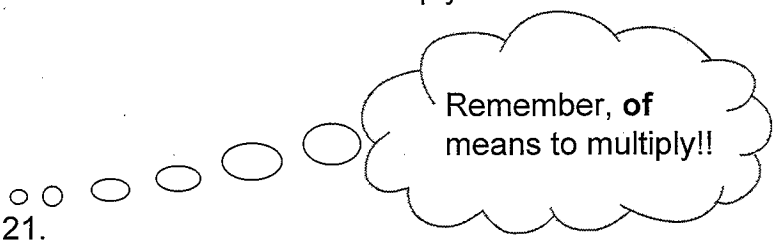
Percent of a Number

You change the percent to a decimal and multiply.

Find 35% of 60.

.35 x 65 = 21

So 35% of 60 is 21.



Find the percent of each number.

1. 40% of 90 _____

2. 85% of 520 _____

3. 30% of 80 _____

4. 47% of 300 _____

5. 45% of 200 _____

6. 120% of 70 _____

7. 65% of 40 _____

8. 25% of 76 _____

9. 115% of 40 _____

10. 275% of 12 _____

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LESSON 6-6

Review for Mastery

Percent of Change

A change in a quantity is often described as a percent increase or percent decrease. To calculate a percent increase or decrease, use this equation.

$$\text{percent of change} = \frac{\text{amount of increase or decrease}}{\text{original amount}} \cdot 100$$

Find the percent of change from 28 to 42.

- First, find the amount of the change. $42 - 28 = 14$
- What is the original amount? 28
- Use the equation. $\frac{14}{28} \cdot 100 = 50\%$

An increase from 28 to 42 represents a 50% increase.

Find each percent of change.

1. 8 is increased to 22

   amount of change $22 - 8 =$ _____

   original amount _____

   _____ • 100 = _____%

2. 90 is decreased to 81

   amount of change $90 - 81 =$ _____

   original amount _____

   _____ • 100 = _____%

3. 125 is increased to 200

   amount of change $200 - 125 =$ _____

   original amount _____

   _____ • 100 = _____%

4. 400 is decreased to 60

   amount of change $400 - 60 =$ _____

   original amount _____

   _____ • 100 = _____%

5. 64 is decreased to 48

   _____

6. 140 is increased to 273

   _____

7. 30 is decreased to 6

   _____

8. 15 is increased to 21

   _____

9. 7 is increased to 21

   _____

10. 320 is decreased to 304

    _____