

3-1-17

Aim: SWBAT review.

Do Now: Fractions, Decimals, and Percents WS

HW: Quiz tomorrow

Name _____

Extra Practice
(Lesson 10-7)

Fractions, Decimals, and Percents

Change each fraction to a percent.

- | | | |
|--------------------------------------|-----------------------|--------------------------------------|
| 1. $\frac{3}{8}$ 37.5% | 2. $\frac{5}{7}$ | * 3. $\frac{1}{15}$ $6\frac{2}{3}\%$ |
| 4. $\frac{3}{25}$ 12% | 5. $\frac{6}{5}$ 120% | * 6. $\frac{9}{75}$ 12% |
| * 7. $\frac{2}{9}$ $22\frac{2}{9}\%$ | 8. $\frac{5}{13}$ | 9. $\frac{8}{11}$ |
| 10. $\frac{9}{40}$ 22.5% | 11. $\frac{7}{80}$ | * 12. $\frac{6}{15}$ 40% |
| 13. $\frac{10}{70}$ | 14. $\frac{8}{90}$ | 15. $\frac{4}{33}$ |

Change each decimal to a percent.

- | | | |
|----------------|------------------|------------------|
| 16. 0.5 50% | 17. 2.72 | 18. 0.65 65% |
| 19. 34.1 3410% | 20. 9.1 910% | 21. 0.08 8% |
| 22. 15.7 1570% | 23. 8.624 862.4% | 24. 35.13 3513% |
| 25. 6.8 | 26. 0.01 1% | 27. 0.0125 1.25% |

Change each percent to a fraction in simplest form.

- | | | |
|--------------------------|---------------------------------------|---------------------------------------|
| 28. 6% $\frac{3}{50}$ | 29. 12% $\frac{3}{25}$ | 30. 2.5% |
| 31. $3\frac{1}{2}\%$ | 32. $33\frac{1}{3}\%$ $\frac{1}{3}$ | 33. 14.6% |
| 34. $6\frac{1}{4}\%$ | 35. 4.25% | 36. $4\frac{3}{4}\%$ |
| * 37. 175% $\frac{7}{4}$ | 38. $8\frac{1}{8}\%$ | 39. 5.75% |
| 40. 408% | 41. $62\frac{1}{2}\%$ | * 42. $71\frac{3}{7}\%$ $\frac{5}{7}$ |
| 43. 8.75% | * 44. $\frac{1}{3}\%$ $\frac{1}{300}$ | 45. $\frac{1}{2}\%$ |

F or D to a % - Mult. by 100
 Percent to F or D - $\div 100$

Name _____ **Extra Practice**
(Lesson 10-7)

Fractions, Decimals, and Percents

Change each fraction to a percent.

(Multiply by 100)

1. $\frac{3}{8}$ 37.5%
or
37 $\frac{1}{2}$ %

2. $\frac{5}{7}$ 71 $\frac{2}{7}$ %

3. $\frac{1}{15}$ 6 $\frac{2}{3}$ %

4. $\frac{3}{25}$ 12%

5. $\frac{6}{5}$ 120%

6. $\frac{9}{75}$ 12%

If the
repeats, fraction,
make it a fraction.

7. $\frac{2}{9}$ 22 $\frac{2}{9}$ %

8. $\frac{5}{13}$ 38 $\frac{6}{13}$ %

9. $\frac{8}{11}$ 72 $\frac{8}{11}$ %

10. $\frac{9}{40}$ 22.5%
or
22 $\frac{1}{2}$ %

11. $\frac{7}{80}$ 8.75%
or
8 $\frac{3}{4}$ %

12. $\frac{6}{15}$ 40%

13. $\frac{10}{70}$ 14 $\frac{2}{7}$ %

14. $\frac{8}{90}$ 8 $\frac{8}{9}$ %

15. $\frac{4}{33}$ 12 $\frac{4}{33}$ %

Change each decimal to a percent. (Multiply by 100)

16. 0.5 50%

17. 2.72 272%

18. 0.65 65%

19. 34.1 3410%

20. 9.1 910%

21. 0.08 8%

22. 15.7 1570%

23. 8.624 862.4%

24. 35.13 3513%

25. 6.8 680%

26. 0.01 1%

27. 0.0125 1.25%

Change each percent to a fraction in simplest form. (Divide by 100)

28. 6% $\frac{3}{50}$

29. 12% $\frac{3}{25}$

30. 2.5% $\frac{1}{40}$

31. 3 $\frac{1}{2}$ % $\frac{7}{200}$

32. 33 $\frac{1}{3}$ % $\frac{1}{3}$

33. 14.6% $\frac{73}{500}$

34. 6 $\frac{1}{4}$ % $\frac{1}{16}$

35. 4.25% $\frac{17}{400}$

36. 4 $\frac{3}{4}$ % $\frac{19}{400}$

37. 175% $\frac{7}{4}$

38. 8 $\frac{1}{8}$ % $\frac{13}{160}$

39. 5.75% $\frac{23}{400}$

40. 408% $\frac{102}{25}$

41. 62 $\frac{1}{2}$ % $\frac{5}{8}$

42. 71 $\frac{3}{7}$ % $\frac{5}{7}$

43. 8.75% $\frac{7}{80}$

44. $\frac{1}{3}$ % $\frac{1}{300}$

45. $\frac{1}{2}$ % $\frac{1}{200}$

① Original Price: \$45
Percent discount: 15%

$$(0.15)(\$45) = \$6.75 \leftarrow \text{amt. of discount}$$

$$\$45 - \$6.75 = \$38.25$$

⑤ Original price: \$27.99
Percent discount: 30%

$$(0.30)(\$27.99) = \$8.397$$

$$\$27.99 - \$8.397 = \$19.593$$

amt. of discount

$\approx \$19.59$

⑧ Original Price: \$87
Sales Tax: 4.5%

$$(0.045)(\$87) = \$3.915 \text{ tax}$$

$$\$87 + \$3.915 = \$90.915$$

$\boxed{\$90.92}$ total price

④ Original price: \$63.50
Percent discount: 25%

$$(0.25)(\$63.50) = \$15.875$$

$$\$63.50 - \$15.875 = \$47.625$$

amt. of discount

$\approx \$47.63$

⑦ Original price: \$48.50
Sales Tax: 6%

$$(0.06)(\$48.50) = \$2.91 \text{ tax}$$

$$\$48.50 + \$2.91 = \boxed{\$51.41} \text{ total price}$$

⑫ $\frac{3}{11} = \frac{x}{100}$ shown left about a 27.27% tip.

$$\frac{11x}{11} = \frac{300}{11}$$

$$x = 27.\overline{27}$$

$$x = 27.27\%$$

$$\textcircled{3} \quad \$49.90 - \$42.42 = \$7.48$$

$$\frac{7.48}{49.90} = \frac{x}{100} \quad \frac{49.90x = 748}{49.90 \quad 49.90}$$

$$x = 14.9899\dots$$

The store discount is about 15%.

$$\textcircled{14} \quad \text{Old Price: } \$19$$

$$\text{New Price: } \$16.15$$

$$\$19 - \$16.15 = \$2.85 \text{ amt. of discount}$$

$$\frac{2.85}{19} = \frac{x}{100}$$

$$\frac{19x = 285}{19 \quad 19}$$

$$x = 15\%$$

$$\textcircled{16} \quad \text{Old Price: } \$18$$

$$\text{New Price: } \$17.46$$

$$\$18 - \$17.46 = \$0.54$$

$$\frac{0.54}{18} = \frac{x}{100}$$

$$\frac{18x = 54}{18 \quad 18}$$

$$x = 3\%$$

$$\textcircled{17} \quad \text{Old Price: } \$58$$

$$\text{New Price: } \$48.72$$

$$\$58 - \$48.72 = \$9.28$$

$$\frac{9.28}{58} = \frac{x}{100}$$

$$\frac{58x = 928}{58 \quad 58}$$

$$x = 16\%$$

$$\textcircled{20} \quad \text{Price: } \$53.25$$

$$\text{Tax: } 6\%$$

$$(0.06)(\$53.25) = \$3.195 \text{ tax}$$

$$\$53.25 + \$3.195 = \$56.445$$

$$\boxed{\$56.45} \text{ total price}$$

Markup \$50 by 20%

$$(0.20)(\$50) = \$10$$

$$\$50 + \$10 = \$60$$

A local clothing store is having a 10% off sale. If a shirt is usually \$30, how much money will you save?

$$(0.10)(\$30) = \$3$$

DE) MARKDOWN \$45 by 10%

$$(0.10)(\$45) = \$4.50$$

$$\$45 - \$4.50 = \$40.50$$

KE) Sharice buys a vintage videogame for \$10, then marks up the price 40%. How much did she raise the price?

$$(0.40)(\$10) = \$4$$

The Barker family went to a local restaurant for dinner. If the bill is \$60, and they use a 25% off coupon, how much was their meal?

$$(0.25)(\$60) = \$15$$

$$\$60 - \$15 = \$45$$

EO) A clothing company can make shirts for \$4. They markup the price 125%, how much do they sell for?

$$(1.25)(\$4) = \$5$$

amt. of markup

$$+ \$4 + \$5$$

An electronics company makes a cell phone touch screen for \$35. If they markup the price 20%, how much do they make on each one?

$$(0.20)(\$35) = \$7$$

SI) As Fall begins, a clothing store marks down Summer clothes 50%. How much would a \$4 bathing suit cost?

$$(0.50)(\$4) = \$2$$

A restaurant can make a burger for \$5. If they markup the price 30%, what is the menu price of the burger?

$$(0.30)(\$5) = \$1.50$$

$$\$5 + \$1.50 = \$6.50$$

TO) An album that is regularly \$9 is being discounted by 10%. What is the sale price of album?

$$(0.10)(\$9) = \$0.90$$

$$\$9 - \$0.90 = \$8.10$$

\$45	\$3	\$4	\$27	\$8.10	\$6.50	\$9	\$60	\$7	\$23.50	\$40.50											
T	O	M	A	K	E	I	T	T	O	T	H	E	O	T	H	E	R	S	I	D	E