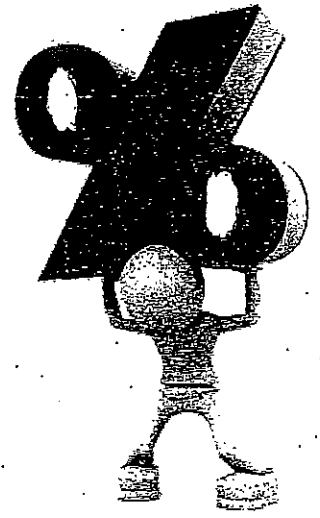


Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

Pre-Algebra  
Percents Take Home and Check



Use the percent proportion to solve:

A

1) What percent of 60 is 15?

①

A

2) What number is 12% of 72?

②

A

3) 9 is 45% of what number?

③

B

4) 6% of what number is  $10\frac{1}{2}$ ?

④

B

5) What number is .5% of 8?

⑤

A

6) A paperback book originally priced at \$12.50 is on sale for \$7.50. What percent of the original cost is the sale price?

⑥



A

7)

Sarah and Monique spent \$14, or 35% of their own money on movie tickets. How much money did they have to start with?

(7)

A

8)

95 of 273 students volunteered. What percent of students did not volunteer?

(8)

B

9)

Granite, a stone found in New Hampshire and Vermont, is 0.8% water. How many pounds of water are there in 3,000 lbs. of granite?

(9)

B

10)

About 9.4% of the people in Texas live in Houston. If the population of Texas is 20,852,000, what is the population of Houston?

(10)



A

- 11) Ms. Allon received a \$325 commission, which is a fee paid based on a percent of her sales. If her sales totaled \$8,125, what is the percent that she earns?

11

A

- 12) Write  $\frac{5}{8}$  as a percent. Round to the nearest hundredth if necessary.

12

A

- 13) Write  $\frac{7}{15}$  as a percent. Round to the nearest hundredth if necessary.

13

A

- 14) Write  $\frac{33}{40}$  as a percent. Round to the nearest hundredth if necessary.

14

A

- 15) Write 0.45% as a decimal and as a fraction in simplest form.

15

A

- 16) Write 8.25 as a percent.

16









- 23) You have a coupon for a 15% discount of any item in a store. You will pay 5% sales tax on the sale price. How much will you pay for a shirt whose regular price is \$16.50? Explain your answer.

B

- 24) One sixth of your flower garden contains petunias, 0.195 of your garden contains marigolds, and 18% contains pansies. Order these numbers from least to Greatest.

B

- 25) In 2004, there were about 35,900 Orangutans remaining in Borneo and Sumatra. In 2008, the population had fallen about 43%. About how many orangutans were left in Borneo and Sumatra in 2008?

B

- 26) In 1970, the price of a loaf of bread was \$0.24. Today that price is \$3.49. What is the percent of increase in the price of bread?

A

- 27) Julia's income in 2013 was \$40,500. In 2014 her income dropped to \$38,250. What was the percent of decrease?

B



**A** 28) A street vendor buys purses from a manufacturer for \$18 each. The vendor marks up the price by 150%. What is the retail price?

**A** 29) You buy a pair of skis that are on sale for 15% off the original price of \$435. What is the sale price?

**C** ~~X~~ 30) A sporting goods company marks up the wholesale price (original price) of a canoe by 75%. The retail price is \$999. What is the wholesale price?

**A** 31) You are running a carnival and you estimate that 500 students will buy candy apples. When the carnival ends you find that 385 candy apples were sold. What was the percent error?

**B** 32) You estimated your vacation costs for your senior spring trip to the Bahamas at \$2450 for a week. You really had a great time but you spent \$3925. What is your percent error?



\* 33)

C

The selling price of the bicycle you carry in your bicycle shop is \$438. The markup rate is 30%. What was the markup amount and the wholesale price (original amount) of the bike?

\* 34)

C

A tennis racket is sold for \$220. If the cost to the store was \$150, find the markup rate.

\* 35)

C

A boat that normally sells for \$20,000 is on sale for \$17,500. Find the discount rate.

\* 36)

C

A dress sells for \$165. The discount rate is 10%. Find the discount amount and then find the original price of the dress.

37)

A

You order a meal at your favorite restaurant for \$23. You leave a 18% tip. The sales tax is 6%. What is the total cost of your meal?



B

38) A laptop computer is on sale for 15% off the original price of \$1600. When it does not sell, the laptop goes on sale for an additional 20% off. What is the new sale price of the laptop?

A

39) In Los Angeles, CA, it rains an average of 35 days per year. About what percent of days in a year does it NOT rain in Los Angeles? Round your answer to the nearest percent.

A

40) The Los Angeles Sparks won 87.5% of 32 regular season games before winning the WNBA championship in 2001. How many games did they win?

A

41) Find the simple interest on a loan of \$2,300 at 6.5% for 5 years and 6 months..

C

\* 42) Find the length of time for a loan of \$4,500 at 7% a with simple interest payment of \$1,102.50.

C

\* 43) In how many years would the amount to be repaid on a loan at 10% interest be equal to the principal of the loan?