

NAME ANSWER KEY

Review for Ch.2 Fractions, Decimals, and Percent

****You must show your work!!!!**

Circle the correct letter for each question.

1. What is 3.8% written as a decimal?

- A. 0.038 B. 0.38 C. 38 D. 380

3.8%

2. The original price of a pair of jeans is \$32. The sale price is 15% off the original price. What is the amount off the original price?

- A. \$1.75 B. \$4.80 C. \$5.25 D. \$15

$15\% = 0.15$

$$\begin{array}{r} 32 \\ \times 0.15 \\ \hline 160 \\ 320 \\ \hline 4.80 \end{array}$$

3. What is the order of 75%, $\frac{1}{3}$, $\frac{3}{8}$, and 0.625 from least to greatest?

F. $\frac{1}{3}$, 75%, 0.625

G. $\frac{3}{8}$, $\frac{1}{3}$, 75%, 0.625

.75 .33 0.375

0.625

H. $\frac{3}{8}$, $\frac{1}{3}$, 0.625, 75%

I. $\frac{1}{3}$, $\frac{3}{8}$, 0.625, 75%

$$\begin{array}{r} 0.375 \\ 8 \overline{) 3.000} \\ \underline{-0} \\ 30 \\ \underline{-24} \\ 60 \\ \underline{-56} \\ 40 \end{array}$$

4. What is 14.06 written as a mixed number?

- A. $14\frac{6}{10}$ B. $14\frac{3}{5}$ C. $14\frac{3}{25}$ D. $14\frac{3}{50}$

$14\frac{6}{100} = 14\frac{3}{50}$

5. Jim has answered 7 E-mails. This is 35% of the E-mails he must answer. How many E-mails does he need to answer?

- F. 20 G. 13 H. 10 I. 5

$\frac{\text{part}}{\text{whole}} = \frac{35 \div 5}{100 \div 5} = \frac{7}{X} \quad X = 20$

6. In a load of laundry, 60% of the socks are white. If there are 25 socks in the load, how many are white?

- A. 12 socks B. 15 socks C. 20 socks D. 25 socks

$\frac{\text{part}}{\text{whole}} = \frac{60 \div 4}{100 \div 4} = \frac{X}{25} \quad X = 15$

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7. What is $4\frac{7}{20}$ written as a decimal?

- F. 4.28 **G. 4.35** H. 4.7 I. 4.45

$$\frac{7}{20} \times \frac{5}{5} = \frac{35}{100} \quad 4.35$$

8. What is 12.5% written as a fraction in simplest form?

- A. $\frac{125}{1,000}$ **B. $\frac{1}{8}$** C. $\frac{3}{25}$ D. $\frac{5}{4}$

$$12.5\% \quad 0.125 \quad \frac{125 \div 125}{1000 \div 125} = \frac{1}{8}$$

9. What is 0.12% written as a decimal?

- F. 0.0012** G. 1.2 H. 12 I. 120

$$0.0012$$

10. In addition to oxygen, several gasses are in air. Carbon dioxide makes up 0.00039 of air. What is 0.00039 written as a percent?

- F. 39% G. 0.39% **H. 0.039%** I. 0.00039%

Find the percent of each number.

11. 17% of 155

$$\begin{array}{r} 155 \\ \times 0.17 \\ \hline 1085 \\ + 1550 \\ \hline 2635 \end{array}$$

26.35

12. 24% of 780

$$\begin{array}{r} 780 \\ \times 0.24 \\ \hline 3120 \\ + 15600 \\ \hline 18720 \end{array}$$

187.2

Write each fraction as a percent.

13. $\frac{47}{50} \times \frac{2}{2} = \frac{94}{100}$

$$\frac{94}{100} = 94\%$$

14. $\frac{4}{25} \times \frac{4}{4} = \frac{16}{100}$

$$\frac{16}{100} = 16\%$$

Write each percent as a decimal AND fraction in simplest form.

15. 165%

$$\frac{165}{100} = 1.65$$
$$\frac{165 \div 5}{100 \div 5} = \frac{33}{20}$$

16. 0.065%

$$\frac{65}{100,000} = \frac{13}{20,000}$$

17. The original price of a DVD is \$11. The sale price is 30% off the original price.

How much is the discount?

$$\begin{array}{r} 11 \\ \times 0.3 \\ \hline 3.3 \end{array}$$

\$3.30

What is the sale price of the DVD?

$$\begin{array}{r} 11.00 \\ - 3.30 \\ \hline 7.70 \end{array}$$

\$7.70