

Simplify all answers and show your work!

1) The decimal point in a whole number is located _____.

2) In a number (such as in “one and four tenths”), the term “and” means put in a _____.

3) When rounding decimals with money, rounding to the nearest cent is the same as rounding to the _____ place.

4) Exponents are a shortcut for repeated _____.

5) In the division problem $4\frac{7}{11} \div \frac{1}{2}$, which number represents the amount that we are **starting with**? _____

6) Write < or > to make a true statement.

Justify your answer. $\frac{3}{11}$ _____ $\frac{5}{18}$

7) Simplify: $\left(\frac{4}{5} + \frac{3}{10}\right) \div \frac{3}{2} \cdot \frac{3}{7}$

8) Divide: $\frac{13.104}{5.6}$

9) Simplify: a) $\left(\frac{2}{5}\right)^2$

b) $\sqrt{\frac{64}{25}}$

10) Write as a fraction **in lowest terms**:

a) 0.18

b) 2.8

11) Round to the nearest cent: a) \$4.9489

b) \$56.8971

12) Add: $3.84 + 746 + 21.7$

13) Subtract: $30 - 21.86$

14) Multiply: $\begin{array}{r} 3.1 \quad \text{_____ place(s)} \\ \times 7.6 \quad \text{_____ place(s)} \\ \hline \end{array}$

_____ place(s)

15) On his way home from work, Will needs to drive to the grocery store, which is $4\frac{7}{10}$ miles from his workplace, and then $3\frac{1}{2}$ miles from the grocery store to his house. How many miles will Will have driven on his way home from work that day?

16) A recipe requires $2\frac{1}{2}$ cups of sugar. Jim wants to make half of this recipe. How much sugar will Jim need?

17) Sarah's car can go 32 miles on each gallon of gasoline. How many miles can her car go on $5\frac{1}{3}$ gallons?

18) A motor contains $4\frac{2}{3}$ liters of oil. A leak in the motor resulted in a loss of $\frac{3}{4}$ liters of oil over the day. How much oil was left in the motor?

19) A 12-foot pipe needs to be cut into pieces that are $1\frac{1}{3}$ feet long. How many pieces at **exactly** that length can be cut?

20) JoAnn has completed $\frac{3}{5}$ of a job that requires 40 hours of work. How many hours has she spent on the job so far?

21) It's estimated that each guest at a party will eat about $\frac{7}{16}$ lbs of trail mix. How many guests can be served with $8\frac{3}{4}$ lbs of trail mix?