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Use the table to solve each problem below. Remember that decimals can help to represent large numbers.



**U.S. ADVERTISING SPENDING IN A RECENT YEAR**

Category	Spending in Billions of Dollars	
	Newspapers & Magazines	TV & Radio
Automotive	5.060	5.260
Entertainment	1.151	3.953
Food	0.747	3.203
Travel	0.146	2.217

1. How much more was spent advertising cars and trucks on TV and radio than in newspapers and magazines?

2. How much money was spent altogether advertising food?

3. How much less was spent on advertising for travel than for food in newspapers and magazines?

4. How much more was spent advertising entertainment on TV and radio than in newspapers and magazines?

5. How much more was spent advertising cars and trucks on TV and radio than advertising travel in newspapers and magazines?

6. How much was spent on TV and radio advertising for the four categories listed?

7. How much was spent on advertising in newspapers and magazines for the categories listed?

8. How much less was spent on total advertising in newspapers and magazines than on total advertising on TV and radio?

A fraction has two terms, the **numerator** and the **denominator**. An **equivalent fraction** names the same number in different terms.

To find an equivalent fraction in higher terms, multiply the numerator and the denominator by the same number.

$$\frac{2}{4} \times \frac{2}{2} = \frac{4}{8} \quad \leftarrow \begin{array}{l} \text{Numerator} \\ \text{Denominator} \end{array}$$

To find an equivalent fraction in lower terms, divide both terms by the same number. To find the lowest terms, use the greatest common factor (GCF).

$$\frac{8}{12} \div \frac{4}{4} = \frac{2}{3}$$

Write an equivalent fraction in higher terms.

1.  $\frac{3}{4} = \frac{\quad}{12}$       2.  $\frac{1}{3} = \frac{\quad}{9}$       3.  $\frac{3}{5} = \frac{\quad}{10}$       4.  $\frac{1}{2} = \frac{\quad}{16}$       5.  $\frac{4}{6} = \frac{\quad}{12}$
6.  $\frac{2}{9} = \frac{\quad}{18}$       7.  $\frac{5}{8} = \frac{\quad}{24}$       8.  $\frac{4}{7} = \frac{\quad}{49}$       9.  $\frac{5}{12} = \frac{\quad}{36}$       10.  $\frac{1}{5} = \frac{\quad}{100}$

Write an equivalent fraction in lowest terms. Use the GCF.

11.  $\frac{10}{12} = \frac{\quad}{\quad}$       12.  $\frac{6}{9} = \frac{\quad}{\quad}$       13.  $\frac{10}{14} = \frac{\quad}{\quad}$       14.  $\frac{6}{15} = \frac{\quad}{\quad}$       15.  $\frac{9}{21} = \frac{\quad}{\quad}$
16.  $\frac{3}{24} = \frac{\quad}{\quad}$       17.  $\frac{21}{28} = \frac{\quad}{\quad}$       18.  $\frac{30}{36} = \frac{\quad}{\quad}$       19.  $\frac{40}{45} = \frac{\quad}{\quad}$       20.  $\frac{15}{60} = \frac{\quad}{\quad}$
21.  $\frac{36}{42} = \frac{\quad}{\quad}$       22.  $\frac{5}{75} = \frac{\quad}{\quad}$       23.  $\frac{18}{81} = \frac{\quad}{\quad}$       24.  $\frac{28}{72} = \frac{\quad}{\quad}$       25.  $\frac{30}{100} = \frac{\quad}{\quad}$
26.  $\frac{45}{63} = \frac{\quad}{\quad}$       27.  $\frac{24}{40} = \frac{\quad}{\quad}$       28.  $\frac{50}{250} = \frac{\quad}{\quad}$       29.  $\frac{150}{300} = \frac{\quad}{\quad}$       30.  $\frac{12}{144} = \frac{\quad}{\quad}$

Complete each problem with an equivalent fraction.

31. Tanya has addressed  $\frac{50}{75}$  of the invitations to a party. That's  $\frac{\quad}{3}$  of the invitations.
- \_\_\_\_\_

32. Marcus inflated  $\frac{1}{4}$  of the party balloons. He blew up  $\frac{\quad}{100}$  of them.

