

Section 2.7 Division and Applications

Find the reciprocal.

1) $\frac{7}{8}$

4) $\frac{4}{3} \div \frac{1}{9}$

2) $\frac{1}{5}$

5) $30 \div \frac{5}{7}$

Divide and simplify.

3) $\frac{1}{2} \div \frac{7}{8}$

Solve and simplify.

6) $\frac{5}{6} \cdot t = 65$

7) $\frac{5}{12} \cdot n = \frac{15}{6}$

10) Jeremy has traveled $\frac{6}{7}$ of his total trip. He has traveled 714 miles so far. How many more miles does he have to travel?

8) $k \cdot \frac{21}{32} = \frac{7}{24}$

11) A bag of chips is 24 ounces. A serving size is $\frac{3}{4}$ ounce. How many servings are in the bag of chips?

Solve.

9) A box of cereal contains about 12 cups. A serving size is $\frac{3}{4}$ cup. About how many servings are in the box of cereal?

12) A piece of cable which is $\frac{2}{5}$ m long is to be cut into pieces $\frac{1}{20}$ m long. How many pieces will there be?