

Name: Class:

Divide whole numbers by fractions

Divide the following. Write your answer as a fraction or as an improper fraction or whole number.

a. $3 \div \frac{6}{7}$

b. $2 \div \frac{2}{5}$

c. $9 \div \frac{1}{3}$

d. $5 \div \frac{7}{10}$

e. $8 \div \frac{1}{5}$

f. $4 \div \frac{5}{8}$

g. $7 \div \frac{1}{5}$

h. $2 \div \frac{2}{4}$

i. $9 \div \frac{5}{10}$

g. $6 \div \frac{1}{3}$

h. $3 \div \frac{3}{9}$

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Divide whole numbers by fractions

Divide the following. Write your answer as a fraction or as an improper fraction or whole number.

a. $3 \div \frac{6}{7}$

Rewrite the whole number as a fraction.

$\frac{3}{1} \div \frac{6}{7}$ Find the reciprocal of the second fraction
and change the division sign to multiplication sign.

$$\frac{3}{1} \times \frac{7}{6} = \frac{21}{6} = \frac{7}{2}$$

So, $3 \div \frac{6}{7} = \frac{7}{2}$

d. $5 \div \frac{7}{10}$

Rewrite the whole number as a fraction.

$$\frac{5}{1} \div \frac{7}{10}$$

$$\frac{5}{1} \times \frac{10}{7} = \frac{50}{7}$$

So, $5 \div \frac{7}{10} = \frac{50}{7}$

b. $2 \div \frac{2}{5}$

Rewrite the whole number as a fraction.

$\frac{2}{1} \div \frac{2}{5}$ Find the reciprocal of the second fraction
and change the division sign to multiplication sign.

$$\frac{2}{1} \times \frac{5}{2} = 5$$

So, $2 \div \frac{2}{5} = 5$

e. $8 \div \frac{1}{5}$

Rewrite the whole number as a fraction.

$$\frac{8}{1} \div \frac{1}{5}$$

$$\frac{8}{1} \times \frac{5}{1} = 40$$

So, $8 \div \frac{1}{5} = 40$

c. $9 \div \frac{1}{3}$

Rewrite the whole number as a fraction.

$\frac{9}{1} \div \frac{1}{3}$ Find the reciprocal of the second fraction
and change the division sign to multiplication sign.

$$\frac{9}{1} \times \frac{3}{1} = 27$$

So, $9 \div \frac{1}{3} = 27$

f. $4 \div \frac{5}{8}$

Rewrite the whole number as a fraction.

$$\frac{4}{1} \div \frac{5}{8}$$

$$\frac{4}{1} \times \frac{8}{5} = \frac{32}{5}$$

So, $4 \div \frac{5}{8} = \frac{32}{5}$