Name: .... Class: ....

Divide whole numbers by fractions

Divide the following. Write your answer as a fraction or as an improper fraction or whole number.
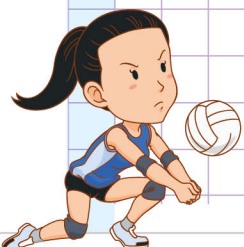
a. $3 \div \dfrac{6}{7}$

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

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

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

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

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

Name: .... Class: ....

Divide whole numbers by fractions

Divide the following. Write your answer as a fraction or as an improper fraction or whole number.
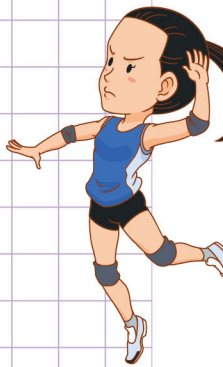
a. $3 \div \dfrac{6}{7}$
Rewrite the whole number as a fraction.
$\dfrac{3}{1} \div \dfrac{6}{7}$ Find the reciprocal of the second fraction
and change the division sign to multiplication sign.
$\dfrac{3}{1} \times \dfrac{7}{6} = \dfrac{21}{6} = \dfrac{7}{3}$

So, $3 \div \dfrac{6}{7} = \dfrac{7}{3}$

d. $5 \div \dfrac{7}{10}$
Rewrite the whole number as a fraction.
$\dfrac{5}{1} \div \dfrac{7}{10}$
$\dfrac{5}{1} \times \dfrac{10}{7} = \dfrac{50}{7}$

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

b. $2 \div \dfrac{2}{5}$
Rewrite the whole number as a fraction.
$\dfrac{2}{1} \div \dfrac{2}{5}$ Find the reciprocal of the second fraction
and change the division sign to multiplication sign.
$\dfrac{2}{1} \times \dfrac{5}{2} = 5$

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

e. $8 \div \dfrac{1}{5}$
Rewrite the whole number as a fraction.
$\dfrac{8}{1} \div \dfrac{1}{5}$
$\dfrac{8}{1} \times \dfrac{5}{1} = 40$

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

c. $9 \div \dfrac{1}{3}$
Rewrite the whole number as a fraction.
$\dfrac{9}{1} \div \dfrac{1}{3}$ Find the reciprocal of the second fraction
and change the division sign to multiplication sign.
$\dfrac{9}{1} \times \dfrac{3}{1} = 27$

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

f. $4 \div \dfrac{5}{8}$
Rewrite the whole number as a fraction.
$\dfrac{4}{1} \div \dfrac{5}{8}$
$\dfrac{4}{1} \times \dfrac{8}{5} = \dfrac{32}{5}$

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