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

Divide fractions by whole numbers

Divide the following.

a. $\dfrac{3}{7} \div 10$

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

_____

c. $\dfrac{4}{6} \div 3$

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Divide fractions by whole numbers

Divide the following.

a. $\dfrac{3}{7} \div 10$

Write the whole number as a fraction.

$\dfrac{3}{7} \div \dfrac{10}{1}$ Find the reciprocal of the second fraction

and change the division sign to multiplication sign.

$\dfrac{3}{7} \times \dfrac{1}{10} = \dfrac{3}{70}$

So, $\dfrac{3}{7} \div 10 = \dfrac{3}{70}$

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

Write the whole number as a fraction.

$\dfrac{2}{5} \div \dfrac{5}{1}$ Find the reciprocal of the second fraction

and change the division sign to multiplication sign.

$\dfrac{2}{5} \times \dfrac{1}{5} = \dfrac{2}{25}$

So, $\dfrac{2}{5} \div 5 = \dfrac{2}{25}$

c. $\dfrac{4}{6} \div 3$

Write the whole number as a fraction.

$\dfrac{4}{6} \div \dfrac{3}{1}$ Find the reciprocal of the second fraction

and change the division sign to multiplication sign.

$\dfrac{4}{6} \times \dfrac{1}{3} = \dfrac{4}{18} \longrightarrow \dfrac{2 \times 2}{9 \times 2} = \dfrac{2}{9}$

So, $\dfrac{4}{6} \div 3 = \dfrac{2}{9}$