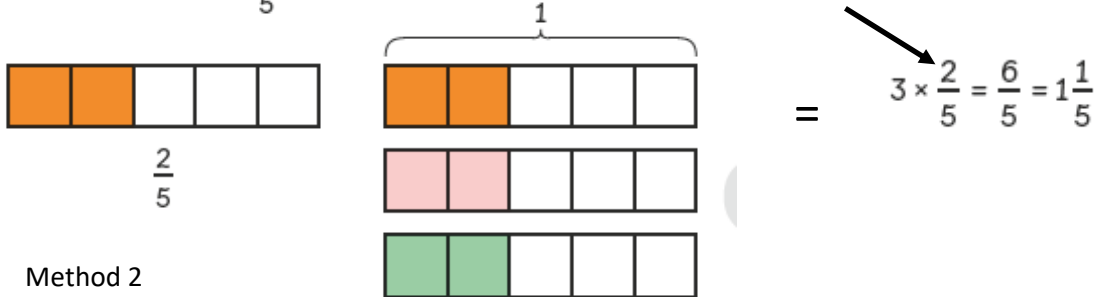# Multiplying fractions

Method 1

Find the value of $3 \times \dfrac{2}{5}$.   Here we just x the whole number by the numerator and keep the dominator the same.

1

$=$ $3 \times \dfrac{2}{5} = \dfrac{6}{5} = 1\dfrac{1}{5}$

$\dfrac{2}{5}$

Method 2

Here we turn the whole number into an improper fraction.

Find the value of $3 \times \dfrac{2}{5}$.

$\dfrac{3}{1} \times \dfrac{2}{5} = \dfrac{6}{5} = 1\dfrac{1}{5}$

You can use either method. Its up to you.

$4 \times \dfrac{4}{7} =$

$3 \times \dfrac{5}{8} =$

$\dfrac{1}{6} \times 9 =$
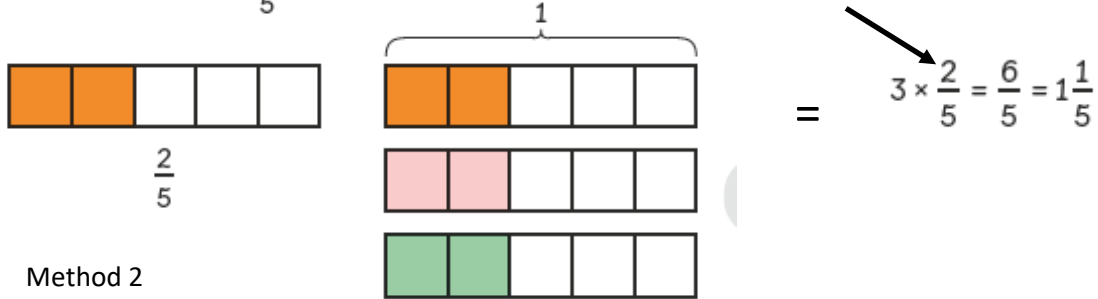
$\dfrac{3}{7} \times 12 =$

Holly used $\dfrac{2}{3}$ m of ribbon to tie one parcel. How many metres of ribbon will she need for 5 similar parcels?

Multiplying fractions

Method 1

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Method 2

Here we turn the whole number into an improper fraction.

Find the value of $3 \times \dfrac{2}{5}$.

$\dfrac{3}{1} \times \dfrac{2}{5} = \dfrac{6}{5} = 1\dfrac{1}{5}$

You can use either method. Its up to you.

$4 \times \dfrac{4}{7} = \dfrac{16}{7}$

$= 2\dfrac{2}{7}$

$3 \times \dfrac{5}{8} = \dfrac{15}{8}$

$= 1\dfrac{7}{8}$

$\dfrac{1}{6} \times 9 = \dfrac{1}{6} \times \dfrac{9}{1} = \dfrac{9}{6}$

$= 1\dfrac{1}{2}$

$\dfrac{3}{7} \times 12 = \dfrac{36}{7}$

$= 5\dfrac{1}{7}$

Holly used $\dfrac{2}{3}$ m of ribbon to tie one parcel. How many metres of ribbon will she need for 5 similar parcels?

$\dfrac{2}{3} \times \dfrac{5}{1} = \dfrac{10}{3}$

$= 3\dfrac{1}{3}$ **m**

Now with mixed numbers number fractions.. Either method is correct

$1\frac{1}{4} \times 2$

$= \frac{5}{4} \times 2$ **X** denominator and **+** numerator

$= \frac{10}{4}$ $= 2\frac{1}{2}$

$1\frac{1}{4} \times 2$ Here just x whole numbers

1 × 2

$= 2 + \frac{2}{4}$

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

Here just X whole numerator by whole number and keep d the same **1×2 = $\frac{2}{4}$**

$1\frac{2}{3} \times 3$ $3\frac{1}{2} \times 3$ $2\frac{2}{5} \times 5 =$

) Lulu has 3 packets of biscuits. Each packet weighs $1\frac{2}{5}$ kg. What is the total mass of the 3 packets of biscuits?

) Hannah used 3 m of cloth to sew a skirt. She needs $1\frac{2}{9}$ times that amount to sew a dress. How many metres of cloth does she need for the dress?

Now with mixed numbers number fractions.. Either method is correct

$1\frac{1}{4} \times 2$ $1\frac{1}{4} \times 2$ Here just x whole numbers

$= \frac{5}{4} \times 2$ **X** denominator and **+** numerator $= 2 + \frac{2}{4}$ **1 × 2**

$= \frac{10}{4} = 2\frac{1}{2}$ $= 2\frac{1}{2}$ Here just X whole numerator by whole number and keep d the same **1x2** $\frac{2}{4}$

$1\frac{2}{3} \times 3$ $3\frac{1}{2} \times 3$ $2\frac{2}{5} \times 5 =$ **12**

$\frac{5}{3} \times 3$ $\frac{7}{2} \times 3$

$= \frac{15}{3}$ $= \frac{21}{2}$

$= 5$ $= 10\frac{1}{2}$

| Lulu has 3 packets of biscuits. Each packet weighs $1\frac{2}{5}$ kg. What is the total mass of the 3 packets of biscuits?

Biscuits | $1\frac{2}{5}$ kg | | |

$3 \times 1\frac{2}{5}$ kg $= 4\frac{1}{5}$ kg

The total mass of the 3 packets is $4\frac{1}{5}$ kg

| Hannah used 3 m of cloth to sew a skirt. She needs $1\frac{2}{9}$ times that amount to sew a dress. How many metres of cloth does she need for the dress?

Skirt | 3 m |

Dress | |

$3 \times 1\frac{2}{9} = 3\frac{2}{3}$ m

Hannah needs $3\frac{2}{3}$ m of cloth to sew a dress