GCSE FOUNDATION · REVISION MAT 5

Calculating with fractions

1 Work out $\frac{4}{7} + \frac{1}{2}$

Give your answer in its simplest form.

2 Work out $\frac{5}{12} \times \frac{8}{15}$

Give your answer in its simplest form.

3 Show that $3\frac{2}{7} - 1\frac{1}{2} = 1\frac{11}{14}$

4 Ellie says,

"$\frac{3}{10} \div \frac{1}{5}$ must be less than $\frac{3}{10}$"

Is Ellie right? Explain your answer.

5 A shop has 84 marbles.

It sells $\frac{1}{7}$ of them on Saturday.

On Sunday it sells $\frac{5}{12}$ of the marbles that are left.

How many marbles are left at the end of Sunday?

6 A piece of ribbon is $6\frac{2}{5}$ m long.

It is cut into pieces that are each $\frac{3}{4}$ m long.

How many pieces can be cut?
How much ribbon is left over?

ANSWERS · REVISION MAT 5

Calculating with fractions

1 $\frac{8}{14} + \frac{7}{14} = 1\frac{1}{14}$

2 $\frac{40}{180} = \frac{2}{9}$

3 $\frac{23}{7} - \frac{3}{2}$

$= \frac{25}{14} = 1\frac{11}{14}$ ✓

4 $\frac{3}{10} \times \frac{5}{1} = 1\frac{1}{2}$

This is bigger, so Ellie is **wrong**: dividing by a fraction less than 1 gives a bigger answer.

5 Saturday: $\frac{1}{7} \times 84 = 12$

Left: 72

Sunday: $\frac{5}{12} \times 72 = 30$

42 marbles left

6 $6\frac{2}{5} \div \frac{3}{4} = 8\frac{8}{15}$

8 pieces, with $\frac{2}{5}$ **m** left over

Mr&Mrs MATHS