GCSE FOUNDATION · REVISION MAT 4

Calculating with fractions

1 Work out $\frac{3}{4} + \frac{2}{5}$

Give your answer in its simplest form.

2 Work out $\frac{4}{9} \times \frac{3}{8}$

Give your answer in its simplest form.

3 Show that $4\frac{1}{5} - 2\frac{2}{3} = 1\frac{8}{15}$

4 Noah says,

"$\frac{5}{6} \div \frac{5}{12}$ must be less than $\frac{5}{6}$"

Is Noah right? Explain your answer.

5 A shop has 150 cakes.

It sells $\frac{2}{5}$ of them on Saturday.

On Sunday it sells $\frac{1}{6}$ of the cakes that are left.

How many cakes are left at the end of Sunday?

6 A piece of ribbon is $5\frac{1}{4}$ m long.

It is cut into pieces that are each $\frac{5}{8}$ m long.

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

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Calculating with fractions

1 $\frac{15}{20} + \frac{8}{20} = 1\frac{3}{20}$

2 $\frac{12}{72} = \frac{1}{6}$

3 $\frac{21}{5} - \frac{8}{3}$

$= \frac{23}{15} = 1\frac{8}{15}$ ✓

4 $\frac{5}{6} \times \frac{12}{5} = 2$

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

5 Saturday: $\frac{2}{5} \times 150 = 60$

Left: 90

Sunday: $\frac{1}{6} \times 90 = 15$

75 cakes left

6 $5\frac{1}{4} \div \frac{5}{8} = 8\frac{2}{5}$

8 pieces, with $\frac{1}{4}$ **m** left over

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