GCSE FOUNDATION · REVISION MAT 1

Calculating with fractions

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

Give your answer in its simplest form.

2 Work out $\frac{3}{8} \times \frac{4}{5}$

Give your answer in its simplest form.

3 Show that $2\frac{1}{3} - 1\frac{3}{4} = \frac{7}{12}$

4 Tia says,

"$\frac{3}{4} \div \frac{1}{8}$ must be less than $\frac{3}{4}$"

Is Tia right? Explain your answer.

5 A shop has 120 books.

It sells $\frac{1}{4}$ of them on Saturday.

On Sunday it sells $\frac{2}{5}$ of the books that are left.

How many books are left at the end of Sunday?

6 A piece of ribbon is $7\frac{1}{2}$ m long.

It is cut into pieces that are each $\frac{2}{3}$ m long.

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

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Calculating with fractions

1 $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$

2 $\frac{12}{40} = \frac{3}{10}$

3 $\frac{7}{3} - \frac{7}{4}$

$= \frac{7}{12} = \frac{7}{12}$ ✓

4 $\frac{3}{4} \times \frac{8}{1} = 6$

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

5 Saturday: $\frac{1}{4} \times 120 = 30$

Left: 90

Sunday: $\frac{2}{5} \times 90 = 36$

54 books left

6 $7\frac{1}{2} \div \frac{2}{3} = 11\frac{1}{4}$

11 pieces, with $\frac{1}{6}$ **m** left over

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