GCSE HIGHER · REVISION MAT 1

Calculating with fractions and decimals

1 Work out

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

2 Work out

$$3.6 \times 0.25$$

3 Show that

$$1\frac{3}{4} + 2\frac{2}{3} = 4\frac{5}{12}$$

4 A cake needs $2\frac{1}{4}$ cups of flour.

How many cakes can be made from 15 cups?

How much flour is left?

5 Find the mistake.

$$4.2 \div 0.06 = 7$$

6 A plank is $3\frac{3}{4}$ m long.

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

How many pieces are there?

7 Show that

$$\frac{2}{3} \text{ of } \frac{3}{5} \text{ of } 45 = 18$$

8 Find two fractions with denominators 3 and 5 and positive whole-number numerators that add up to $\frac{14}{15}$.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Calculating with fractions and decimals

1 $\frac{7}{3} \times \frac{3}{2} = \frac{7}{2}$

$3\frac{1}{2}$

2 0.9

3 $\frac{21}{12} + \frac{32}{12} = \frac{53}{12}$

$= 4\frac{5}{12}$

4 $15 \div \frac{9}{4} = 6\frac{2}{3}$

6 cakes use $13\frac{1}{2}$ cups

6 cakes, $1\frac{1}{2}$ cups left

5 $4.2 \div 0.06 = 420 \div 6$

= 70, not 7

6 $\frac{15}{4} \times \frac{8}{5}$

6 pieces

7 $\frac{3}{5} \times 45 = 27$

$\frac{2}{3} \times 27 = 18$

8 $\frac{5a + 3b}{15} = \frac{14}{15}$

$5a + 3b = 14 \Rightarrow a = 1, b = 3$

$\frac{1}{3} + \frac{3}{5}$

Mr&Mrs MATHS