

# Fractions (H & F)

A collection of 9-1 Maths GCSE Sample and Specimen questions from AQA, OCR, Pearson-Edexcel and WJEC Eduqas.

Name:	Leanne Snow
Total Marks:	@ LeanneSnowAKS

1. Work out  $1\frac{3}{4} \times 1\frac{5}{7}$

Give your answer as a mixed number in its simplest form.

$$= \frac{7}{4} \times \frac{12}{7} = \frac{12}{4} = 3$$

[3]

2. One sheet of A3 card has area  $1/8 \text{ m}^2$

The card has a mass of 160 g per  $\text{m}^2$

Work out the total mass of 25 sheets of A3 card

$$160 \times \frac{1}{8} = 20\text{g}$$

$$20 \times 25 = 500\text{g for 25 sheets}$$

[4]

3. Which of  $\frac{2}{5}$  or  $\frac{5}{8}$  is closer in value to  $\frac{1}{2}$ ?

You must show your working.

$$\frac{1}{2} = 0.5$$

$$\frac{2}{5} = 0.4$$

$$\frac{5}{8} = 0.625$$

$$0.5 - 0.4 = 0.1$$

$$0.625 - 0.5 = 0.125$$

∴  $\frac{2}{5}$  is closer [3]

4. Here are two piles of the same type of paper.

Each sheet of paper is  $\frac{7}{1000}$  cm thick.

The taller pile is  $10\frac{1}{2}$  cm high.



height of taller pile : height of shorter pile = 3 : 2

Work out the number of sheets of paper in the shorter pile.

$$\frac{21}{2} \div \frac{7}{1000} = \frac{21}{2} \times \frac{1000}{7} = 1500$$

[3]

$$3:2 \quad \therefore 1500 \text{ pages in shorter pile}$$