# **Do NOW Activity:**

1 Express 0.0092 in standard form

2 Expand and simplify (x + 3)(x - 3)

3 Factorise 12 - 24x

Work out 528 ÷ 16 =

Increase £1200 by 15%

#### PRIOR KNOWLEDGE CHECK:

1. I am able to add and subtract fractions

#### THE MAIN EVENT

#### **WORKED EXAMPLE #1:**

Work out  $\frac{3}{4} \times \frac{5}{6}$ 

$$\frac{15}{24} = \frac{5}{8}$$

(Total for question 3 is 2 m:

### PRACTICE #1:

(a) 
$$\frac{1}{2} \times \frac{1}{5}$$

(b) 
$$\frac{1}{2} \times \frac{3}{4}$$

(b) 
$$\frac{1}{2} \times \frac{3}{4}$$
 (c)  $\frac{1}{4} \times \frac{3}{5}$ 

$$\stackrel{\text{(d)}}{=} \frac{1}{3} \times \frac{1}{3}$$

(e) 
$$\frac{5}{6} \times \frac{1}{2}$$

(f) 
$$\frac{3}{4} \times \frac{1}{4}$$
 (g)  $\frac{2}{3} \times \frac{1}{7}$  (h)  $\frac{5}{8} \times \frac{1}{3}$ 

$$(g) \quad \frac{2}{3} \times \frac{1}{7}$$

(h) 
$$\frac{5}{8} \times \frac{1}{3}$$

(i) 
$$\frac{2}{3} \times \frac{1}{2}$$

$$(j)$$
  $\frac{1}{3} \times \frac{3}{4}$ 

(j) 
$$\frac{1}{3} \times \frac{3}{4}$$
 (k)  $\frac{3}{10} \times \frac{1}{2}$  (l)  $\frac{2}{5} \times \frac{1}{4}$ 

(l) 
$$\frac{2}{5} \times \frac{1}{4}$$

$$^{(m)}\frac{2}{7} \times \frac{3}{4}$$

(n) 
$$\frac{5}{7} \times \frac{1}{10}$$
 (o)  $\frac{7}{12} \times \frac{2}{3}$  (p)  $\frac{6}{7} \times \frac{2}{3}$ 

(o) 
$$\frac{7}{12} \times \frac{2}{3}$$

$$\frac{6}{7} \times \frac{2}{3}$$

### **WORKED EXAMPLE #2:**

(b) Work out 
$$2\frac{1}{3} \times \frac{3}{5}$$

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

$$\frac{7}{8} \times \frac{3}{5} = \frac{7}{5} = 1\frac{2}{5}$$

### PRACTICE #2:

Question 3: Work out the following divisions. Give your answers as simplified fractions. If any answers are top heavy fractions, write as mixed numbers.

(a) 
$$1\frac{2}{3} \times \frac{1}{4}$$

(b) 
$$\frac{2}{5} \times 1\frac{1}{4}$$

$$(c) \quad \frac{3}{4} \times 1 \frac{1}{2}$$

(a) 
$$1\frac{2}{3} \times \frac{1}{4}$$
 (b)  $\frac{2}{5} \times 1\frac{1}{4}$  (c)  $\frac{3}{4} \times 1\frac{1}{2}$  (d)  $2\frac{1}{2} \times \frac{7}{10}$ 

(e) 
$$\frac{1}{4} \times 3\frac{1}{3}$$

(f) 
$$1\frac{2}{3} \times 1\frac{1}{4}$$

(g) 
$$4\frac{3}{5} \times 1\frac{2}{3}$$

(e) 
$$\frac{1}{4} \times 3\frac{1}{3}$$
 (f)  $1\frac{2}{3} \times 1\frac{1}{4}$  (g)  $4\frac{3}{5} \times 1\frac{2}{3}$  (h)  $1\frac{2}{11} \times \frac{8}{9}$ 

(i) 
$$2\frac{5}{6} \times 2\frac{1}{5}$$

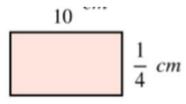
(j) 
$$1\frac{1}{9} \times 3\frac{3}{10}$$

(k) 
$$3\frac{1}{8} \times 2\frac{1}{2}$$

(i) 
$$2\frac{5}{6} \times 2\frac{1}{5}$$
 (j)  $1\frac{1}{9} \times 3\frac{3}{10}$  (k)  $3\frac{1}{8} \times 2\frac{1}{2}$  (l)  $2\frac{6}{7} \times 3\frac{1}{5}$ 

## **PRACTICE #3:**

Question 1: Find the area of this rectangle. Include suitable units.



Question 2: Alexis has a pet dog, Maxi.

Each day, Maxi eats  $\frac{2}{3}$  of a can of dog food.

Alexis is buying dog food for one week.

How many cans of dog food should Alexis buy?

Kelly spends  $\frac{1}{4}$  of her savings on driving lessons. Question 3:

Kelly then spends  $\frac{2}{3}$  of her remaining savings on a new car.

What fraction of her savings has Kelly spent?