

**FOUNDATION TIER
MINI PRACTICE EXAM 11**



**NON-CALCULATOR
20 MINUTES ALLOWED**

1.

Put the following numbers in order, smallest to largest:

$$0.75 \qquad \frac{3}{5} \qquad \frac{7}{10} \qquad \frac{13}{20}$$

(2)

2.

Linda's cat, Mittens, eats 75g of cat food each day.

Linda has 6 tins of cat food.

The tins each contain 400g of cat food.

How many days can Linda feed Mittens for?

(2)

3.

(a) The first four terms of a sequence are 7, 15, 23 and 31.

Find the 20th term in the sequence.

(3)

(b) Maria says "101 is in the sequence".

Is Maria correct?

(2)

4.

(a) Rotate Shape A 90° clockwise about $(-2,0)$ and label this Shape B.

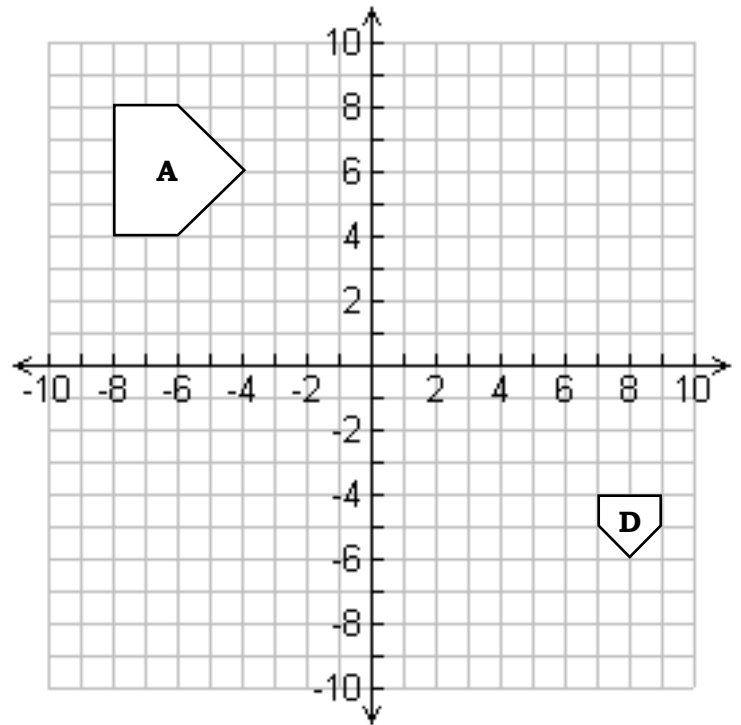
(2)

(b) Enlarge Shape B with scale factor 0.5 using $(-8,-10)$ as the centre of enlargement and label this Shape C.

(3)

(c) Describe fully the single transformation that transforms Shape C into Shape D.

(2)



5.

Solve the simultaneous equations:

$$4x + 3y = 27$$

$$7x - 2y = 11$$