

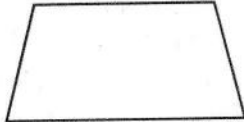
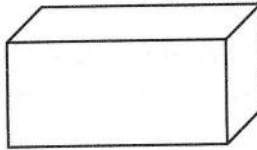
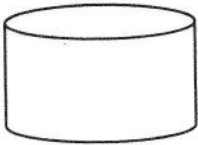
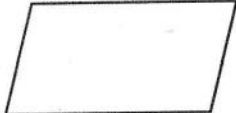
**FOUNDATION TIER
MINI PRACTICE EXAM 7**

**NON-CALCULATOR
20 MINUTES ALLOWED**

1.
(a) Find the highest common factor (HCF) of 24 and 60.
- 24: (1), 24, (2), (12), (3), 8, (4), 6
- 60: (1), 60, (2), 30, (3), 10, (4), 15, 5, (12), 6, 10
- (12)
- (2)

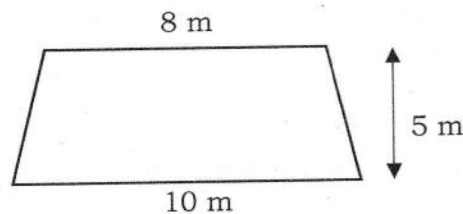
- (b) Find the lowest common multiple (LCM) of 12 and 16.
- 12: 12, 24, 36, (48), 60,
- 16: 16, 32, (48)
- (48)
- (2)

2.
(a) Match the shape to its correct name. The first one has been done for you.

Trapezium	_____	
Parallelogram	_____	
Cuboid	_____	
Cylinder	_____	

(1)

- (b) Find the area of the trapezium below.



$$\frac{8+10}{2} \times 5 = \underline{45\text{m}^2}$$

(3)

(c) Find the volume of a cube that has side lengths 5 cm.

$$5 \times 5 \times 5 = \underline{125 \text{ cm}^3}$$

(2)

3.

Chris is going to spin a fair eight-sided spinner, pictured to the right.

(a) What is the probability that Chris lands on 'A'?

$$\frac{4}{8} = \left(\frac{1}{2}\right) \quad (1)$$

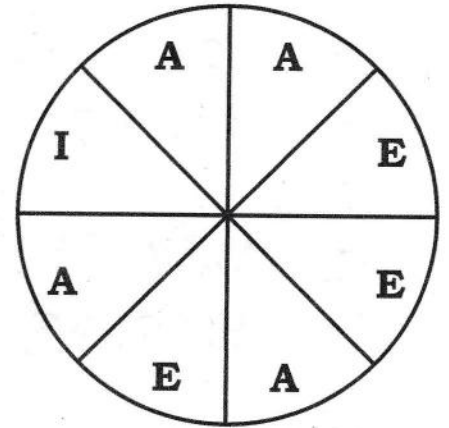
(b) What is the probability that Chris lands on a vowel?

$$1 \quad (1)$$

(c) If Chris spins the spinner 200 times, how many times would you expect him to land on 'E'?

$$\frac{3}{8} \times 200 \quad \begin{array}{r} 075 \\ 8 \overline{) 600} \\ \underline{560} \\ 40 \end{array} \quad \underline{75}$$

(2)



(d) Daniel has a different spinner.

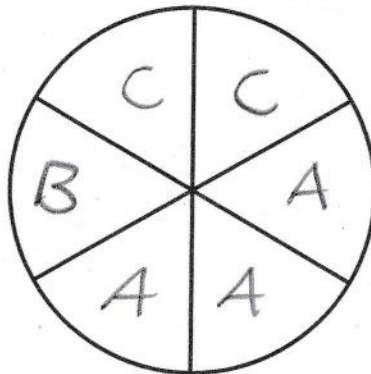
Daniel's spinner is also a fair spinner, and has six sections.

Each section has either A, B or C on it.

The probability that the spinner lands on A is three times the probability that it lands on B.

The probability that the spinner lands on C is $\frac{1}{3}$.

Label the spinner below.



(3)

4.

Tickets for an event are the same price for everyone.

Darren paid £31.50 for 7 tickets.

Elise paid £54 for some tickets.

Frank paid £67.50 for some tickets.

How many more tickets did Frank buy than Elise?

$$7 \overline{) 31.50} \quad \begin{array}{r} 67.50 \\ - 54.00 \\ \hline 13.50 \end{array}$$

$$1 \text{ ticket} = \pounds 4.50$$

$$\pounds 13.50 = \underline{3 \text{ tickets}}$$

(3)