

9 (a) Work out $16 \div 4 + 3 \times 8$

.....
(1)

(b) Find the cube root of 5832

.....
(1)

(c) Write 85% as a decimal.

.....
(1)

(d) Write these fractions in order of size.
Start with the smallest fraction.

$$\frac{3}{4} \quad \frac{2}{5} \quad \frac{7}{15} \quad \frac{2}{3}$$

.....
(2)

(e) Write 36 as a fraction of 96
Give your fraction in its simplest form.

.....
(2)

(Total for Question 9 is 7 marks)



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10 Freda is playing a car racing game on her computer.

She sets up her computer so that her car completes each lap in the same number of seconds.
Her car completes 3 laps in 72 seconds.

To win the game, Freda has to complete 68 laps in less than half an hour.

Does Freda win the game?
Give a reason for your answer.

(Total for Question 10 is 4 marks)



P 6 2 6 5 6 A 0 1 1 2 4

11 Show that $\frac{5}{12} + \frac{3}{8} = \frac{19}{24}$

(Total for Question 11 is 2 marks)

12 (a) Expand $4(m + 2)$

.....
(1)

(b) Solve $2x + 5 = -19$

$x =$
(2)

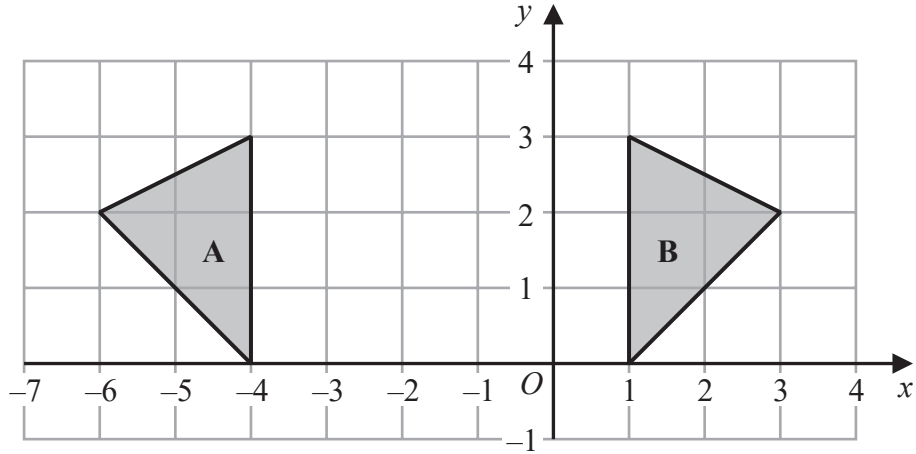
(Total for Question 12 is 3 marks)

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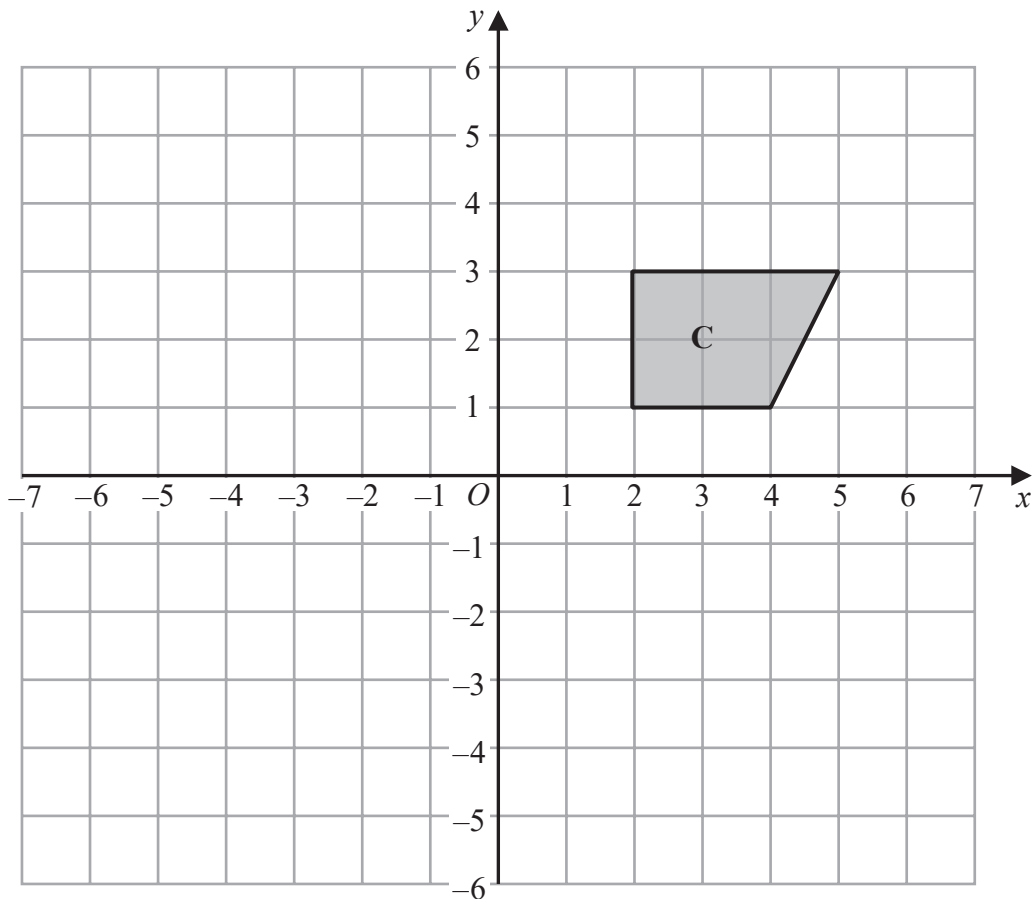




On the grid above, triangle **A** is the reflection of triangle **B** in the mirror line **M**.

- (a) On the grid, draw the mirror line **M**.
Label the line **M**.

(1)



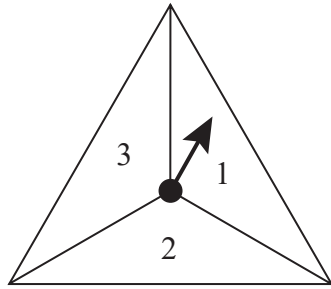
- (b) On the grid above, rotate the shaded shape **C** 90° anticlockwise about the point with coordinates $(0, 0)$.

(2)

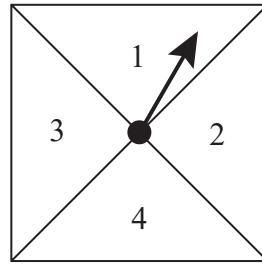
(Total for Question 13 is 3 marks)



14 Here are two fair spinners.



Spinner A



Spinner B

Chanthira spins each spinner once.

She adds together the number that spinner A lands on and the number that spinner B lands on to find the score.

- (a) Complete the table to show all possible scores.
Three scores have been done for you.

		Spinner B			
		1	2	3	4
Spinner A	1	2	3		
	2	3			
	3				

(2)

- (b) Find the probability that the score will be 4 or less.

.....
(2)

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Chanthira now spins both spinners together 84 times.

- (c) Find an estimate for the number of times that spinner **A** and spinner **B** land on the same number.

.....
(2)

(Total for Question 14 is 6 marks)

- 15** Write 880 as a product of powers of its prime factors.
Show your working clearly.

.....
(Total for Question 15 is 3 marks)



16 (a) Write 2.46×10^6 as an ordinary number.

.....
(1)

(b) Write 0.000 74 in standard form.

.....
(1)

(c) Work out $(5.6 \times 10^6) + (2.3 \times 10^5)$

.....
(2)

(Total for Question 16 is 4 marks)

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