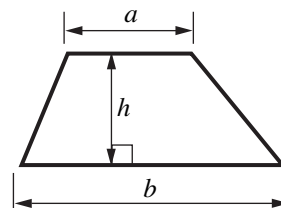
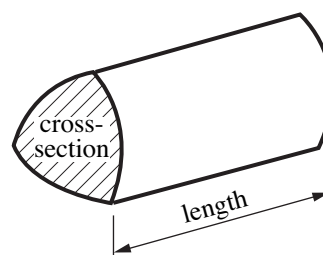


Formulae Sheet

Area of trapezium $= \frac{1}{2} (a + b)h$



Volume of prism $= (\text{area of cross-section}) \times \text{length}$



PLEASE DO NOT WRITE ON THIS PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (OCR) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

OCR is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.

7 City play United at football.

The probability that City win is 0.3.

The probability that the game is a draw is 0.05.

What is the probability that City lose?

..... [2]

2

8 Calculate.

(a) $3 \cdot 5^2 + \sqrt{2 \cdot 25}$

(a) [1]

(b) $\frac{24 \cdot 5 + 8 \cdot 74}{3 \cdot 14 - 2 \cdot 3}$

Give your answer correct to 1 decimal place.

(b) [2]

3

- 9 (a)** Multiply out.

$$2(3x + 5)$$

(a) [1]

- (b)** Factorise.

$$8x + 12$$

(b) [1]

2	

- 10** Work out.

Give each answer as a fraction and show your working clearly.

(a) $\frac{3}{4} - \frac{1}{5}$

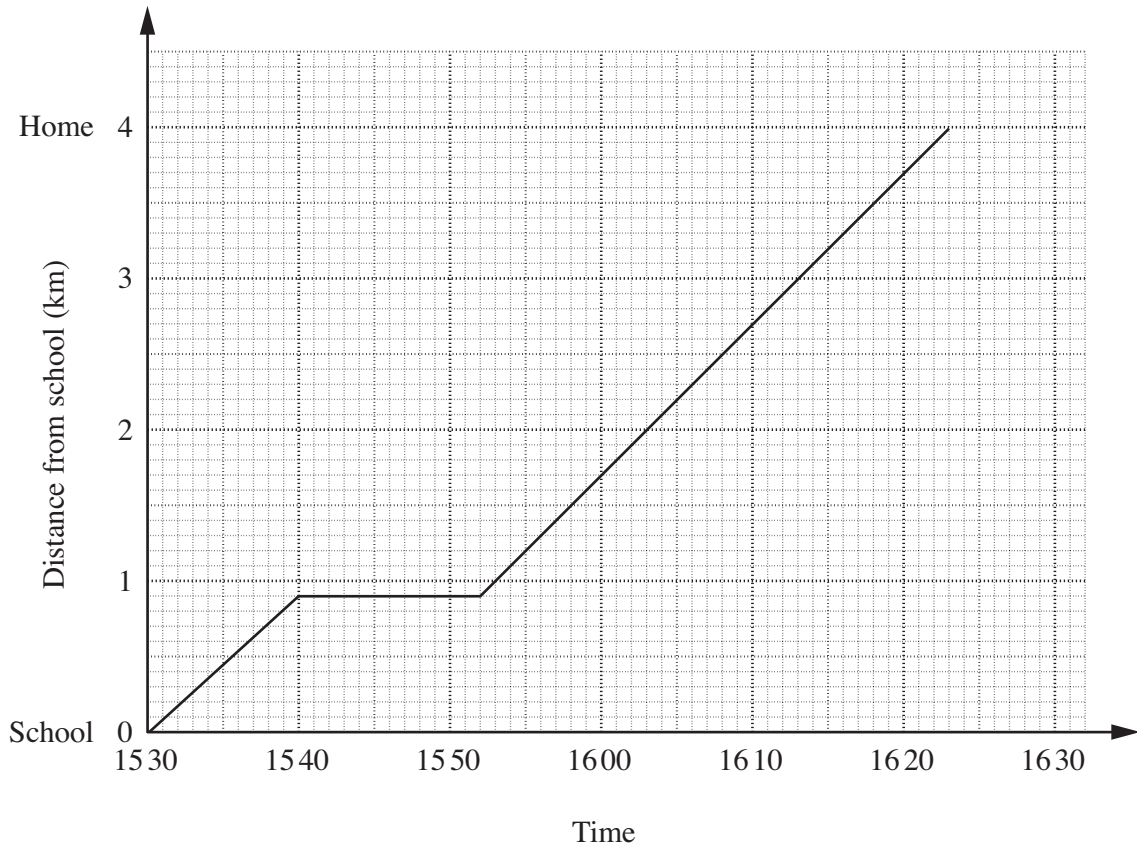
(a) [2]

(b) $\frac{3}{8} \div \frac{2}{5}$

(b) [2]

4	

- 11 Carl walked home from school.
The graph below represents his journey.



- (a) Carl stopped to talk to a friend.

For how long did he stop?

(a) minutes [1]

- (b) How far was Carl from **home** at 16 10?

(b) km [2]

3

- 12 (a)** During one hour a garage sold 2750 litres of petrol and 1750 litres of diesel.

Work out the ratio of petrol to diesel.
Give your answer in its simplest form.

(a) : [2]

- (b)** One day, both Peter and Jane bought petrol at the same garage.

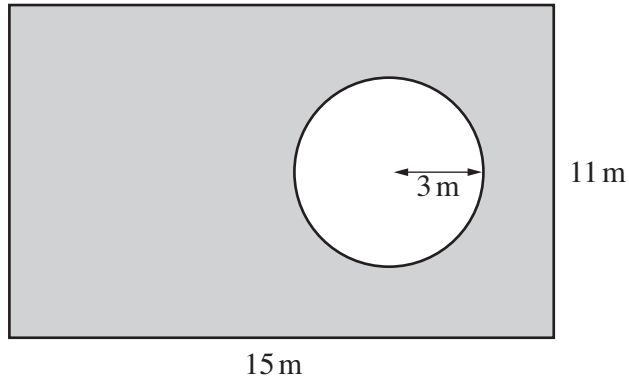
Peter paid £24.05 for 26 litres.
Jane bought 32 litres.

Work out the cost of 32 litres of petrol.

(b) £ [2]

4

13



Not to scale

The diagram shows a garden with a circular fish pond.

The garden is a rectangle 15 m by 11 m.

The radius of the pond is 3 m.

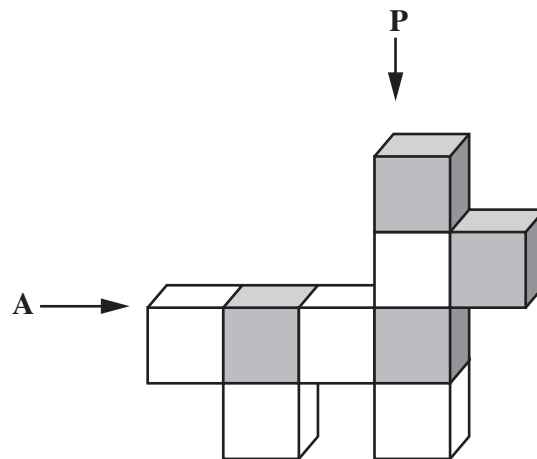
Calculate the shaded area.

..... m² [4]

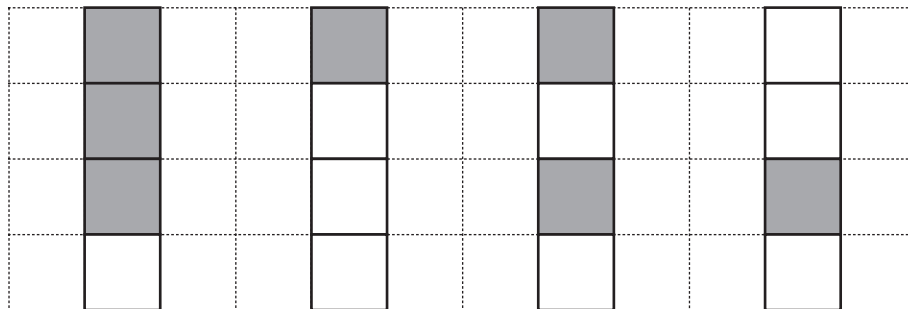
4

TURN OVER FOR QUESTION 14

- 14 This shape is made with four black and five white centimetre cubes.



- (a) Which of the following is the correct view from A.
Put a tick (✓) under the correct view.



.....

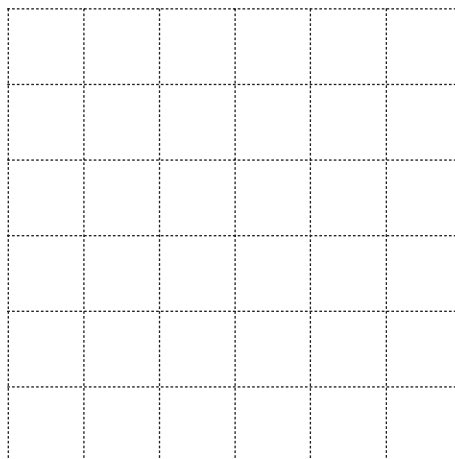
.....

.....

.....

[1]

- (b) On the grid below draw the view from P.



[2]

3