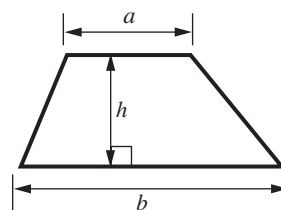
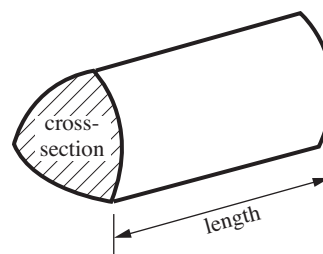


Formulae Sheet

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



Volume of prism = (area of cross-section) \times length



PLEASE DO NOT WRITE ON THIS PAGE

- 1 (a) Ring the fraction which is **not** equivalent to $\frac{3}{5}$.

$$\frac{6}{10} \quad \frac{15}{25} \quad \frac{20}{30} \quad \frac{21}{35}$$

[1]

- (b) Abbey Hotel has 7 single bedrooms and 21 double bedrooms.

What fraction of these rooms are double bedrooms?
Write your answer in its simplest form.

(b) [2]

3

- 2 Work out.

(a) $-2 + -5$

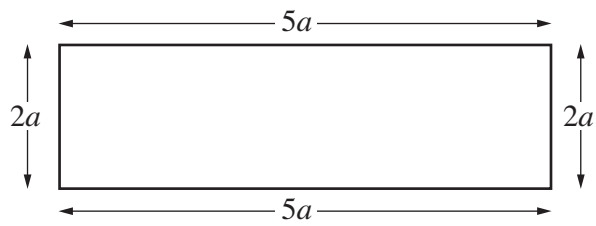
(a) [1]

(b) $-2 - -5$

(b) [1]

2

3 (a)



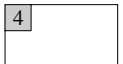
Write an expression for the perimeter of this rectangle.
Give your answer in its simplest form.

(a) [2]

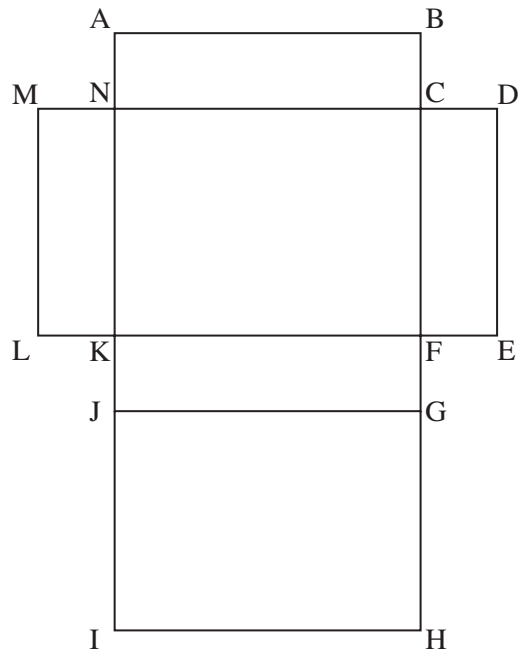
(b) Simplify.

$$3b + 5c + 4b - 2c$$

(b) [2]



- 4 This is a net of a cuboid.



The net is folded to make the cuboid.

- (a) Which points meet with B?

(a) [2]

- (b) How many edges does the cuboid have?

(b) [1]

3	
---	--

5 Solve.

(a) $11 = x - 7$

(a) [1]

(b) $4x - 3 = 7$

(b) [2]

3

6 Write these in order of size, starting with the smallest.
Show your working.

5^2 $\sqrt{100}$ 3^3 4^2

.....[2]
smallest

2

- 7 (a) Ted works out the average price of a ticket to watch his local football team. This is what his calculator shows.



- (i) Write 17.285714 correct to two decimal places.

(a)(i) [1]

- (ii) Write 17.285714 correct to one significant figure.

(ii) [1]

- (b) Chris is sitting in the North Stand.
The North Stand has 29 rows with 37 seats in each row.

Write down a calculation Chris could do in his head
to **estimate** the total number of seats in the North Stand.
Give the answer to your calculation.

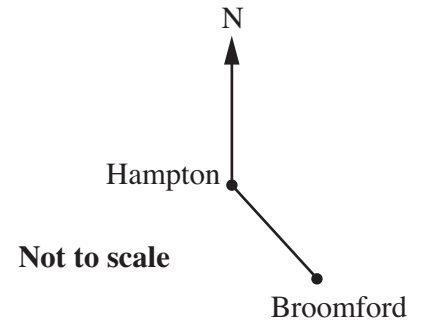
Total number of seats = \times = [2]

4

TURN OVER FOR QUESTION 8

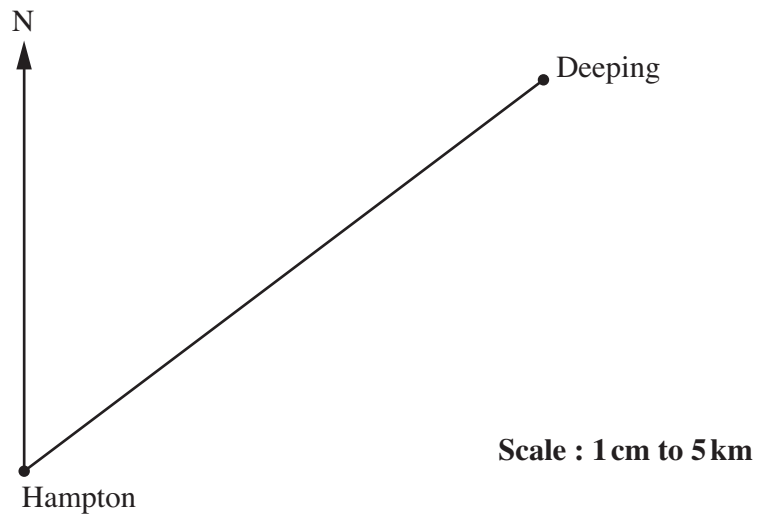
- 8 (a) Broomford is South East of Hampton.

Write down the bearing of Broomford from Hampton.



(a)° [1]

- (b) Raveena cycles from Hampton to Deeping.



- (i) **Measure** the bearing of Deeping from Hampton.

(b)(i)° [1]

- (ii) Work out the **real** distance from Hampton to Deeping.

(ii) km [2]

4

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.