

Mock Grade 5

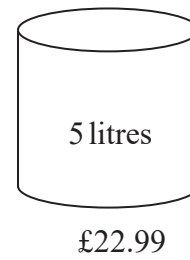
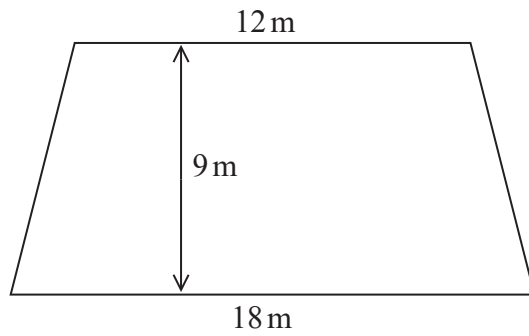
Maths

Booklet 6

Paper 2H
Calculator

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- 1 The diagram shows a floor in the shape of a trapezium.



John is going to paint the floor.

Each 5 litre tin of paint costs £22.99
1 litre of paint covers an area of 4 m^2

John has £160 to spend on paint.

Has John got enough money to buy all the paint he needs?
You must show how you get your answer.

(Total for Question 1 is 5 marks)

- 2 A is the point with coordinates $(3, 11)$
 B is the point with coordinates $(d, 19)$

The gradient of the line AB is 4

Work out the value of d .

.....
(Total for Question 2 is 3 marks)

3 (a) Write the number 0.000 0148 in standard form.

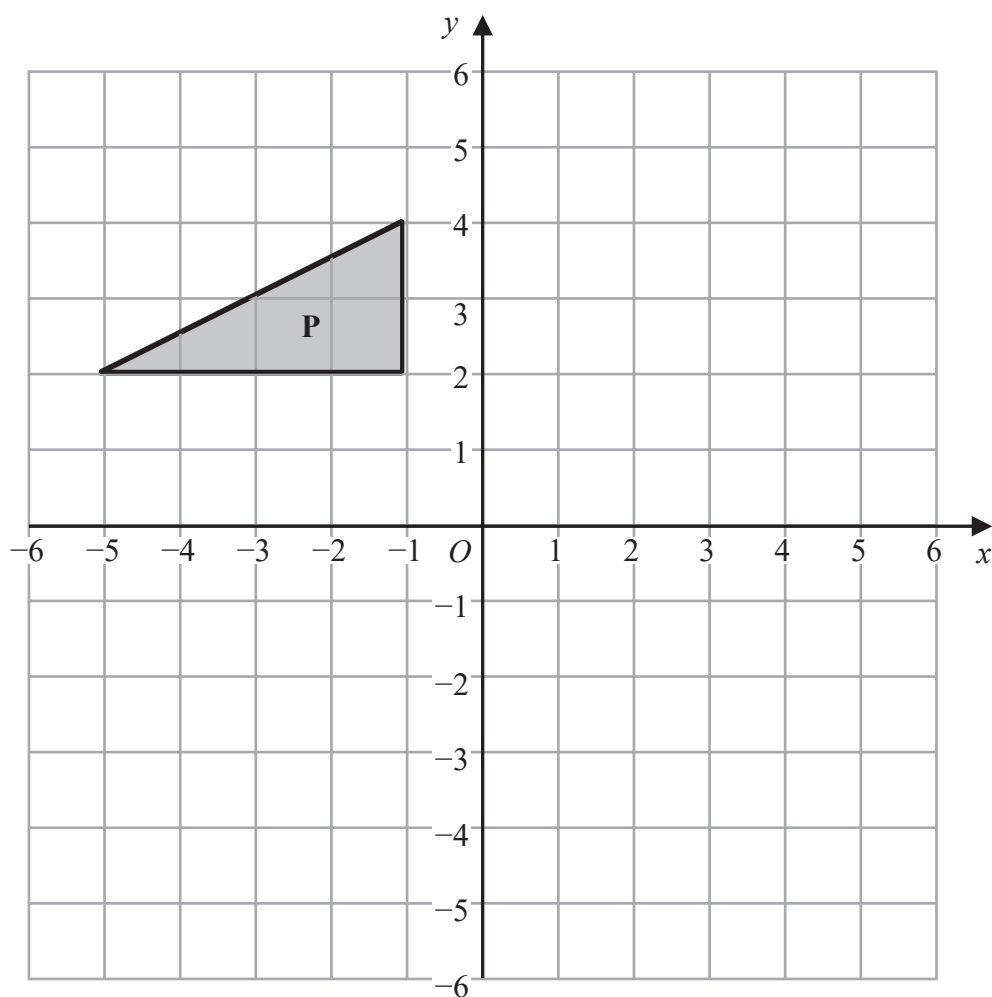
.....
(1)

(b) Work out $\frac{4.1 \times 10^5 \times 7.3 \times 10^4}{2 \times 10^{-6}}$

Give your answer in standard form, correct to 3 significant figures.

.....
(2)

(Total for Question 3 is 3 marks)



Triangle **P** is reflected in the line $y = x$ to give triangle **Q**.
 Triangle **Q** is reflected in the line $x = 1$ to give triangle **R**.

Describe fully the single transformation that maps triangle **R** to triangle **P**.

(Total for Question 4 is 3 marks)

- 5 Martin truncates the number N to 1 digit.
 The result is 5

Write down the error interval for N .

(Total for Question 5 is 2 marks)

6

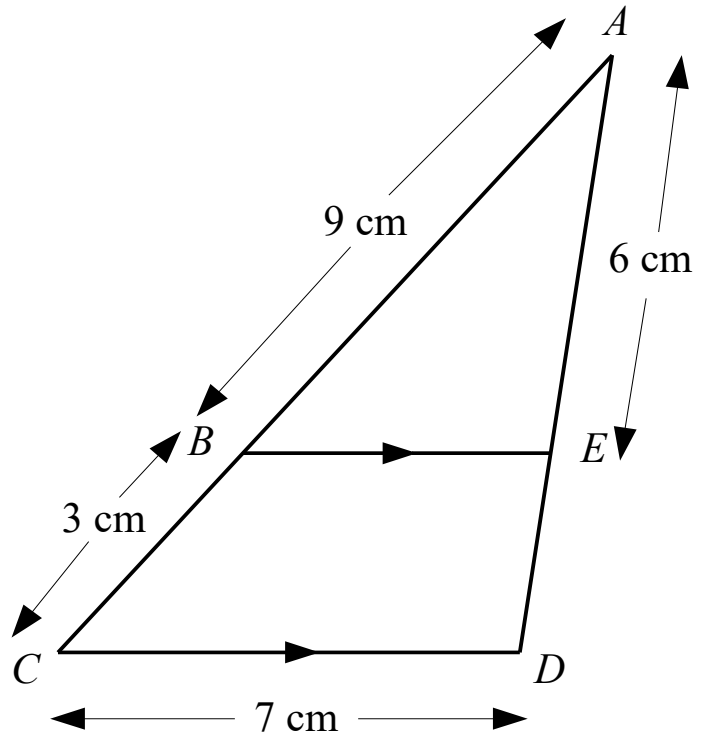
BE is parallel to CD .

$AB = 8.1$ cm.

$BC = 5.4$ cm.

$CD = 2.6$ cm.

$AE = 6$ cm



(a) Work out the length of BE .

..... cm
(2)

(b) Work out the length of ED .

..... cm
(2)

(Total for Question 6 is 4 marks)



- 7 Anil wants to invest £34 000 for 3 years in a bank.

Personal Bank

Compound Interest

3% for each year

Secure Bank

Compound Interest

4.9% for the first year
0.7% for each extra year

Which bank will give Anil the most interest at the end of 4 years?
You must show all your working.

(Total for Question 7 is 3 marks)

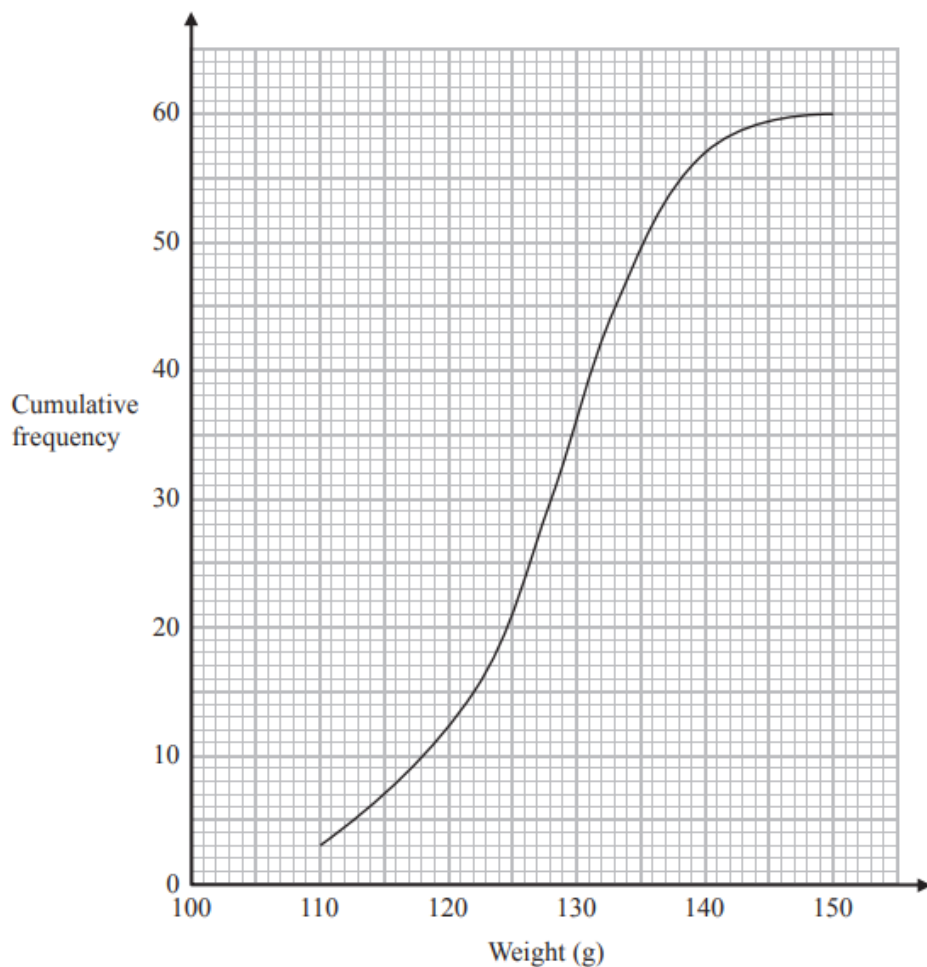
- 8 A number, n , is rounded to 2 decimal places.
The result is 4.76

Using inequalities, write down the error interval for n .

.....

(Total for Question 8 is 2 marks)

- 9 The cumulative frequency graph shows some information about the weights, in g, of 60 apples.



(a) Find the median weight.

(b) Find the inter quartile range.

.....g
(1)

.....g
(2)

(Total for question 9 is 3 marks)