



# Class Maths

## Video Solutions



## PRACTICE PAPER FOR

# Edexcel Paper 1H (June 2026)



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The best way to prepare for the exams is to **revise all topics**.

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Answer ALL questions

Write your answers in the spaces provided

You must write down all the stages in your working.

1 Work out  $0.64^2$

.....  
(Total for Question 1 is 3 marks)

2 Show that  $2\frac{2}{7} \times 3\frac{1}{2}$  is equal to an integer.

(Total for Question 2 is 3 marks)

3 (a) Work out the value of  $4^0 - 4^{-1}$

.....  
(2)

(b) Write  $(7^2 \times 7^3)^5$  in the form  $7^n$  where  $n$  is an integer.

.....  
(2)

**(Total for Question 3 is 4 marks)**

4  $11 \times 13 \times 14 = 2002$

Write 8008 as a product of its prime factors.

.....  
**(Total for Question 4 is 3 marks)**

5 A school library has 360 books.

$\frac{2}{3}$  of the books are old and the rest are new.

85% of the old books are fiction and the rest are non-fiction.

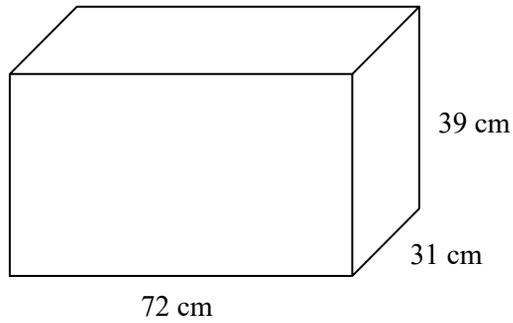
$\frac{5}{6}$  of the new books are fiction and the rest are non-fiction.

Work out the number of books in the library that are non-fiction.

.....  
(Total for Question 5 is 5 marks)



6 The diagram below shows a fish tank in the shape of a cuboid.



The fish tank is filled with water at a rate of 8.1 litres per minute.

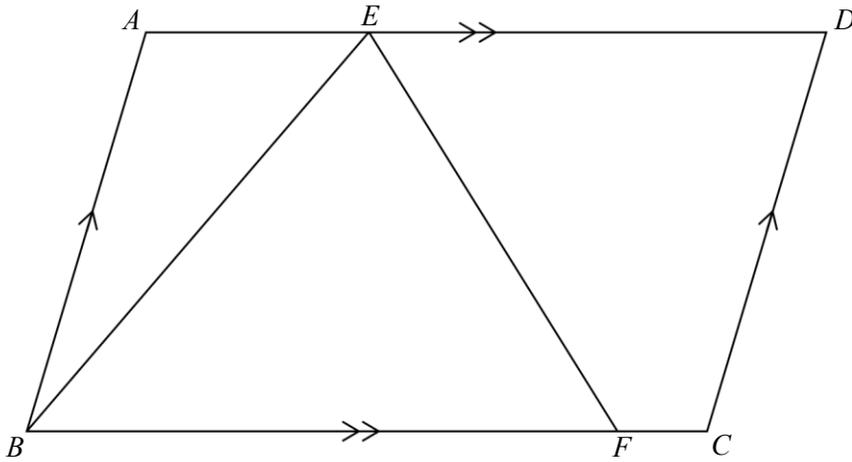
1 litre = 1000 cm<sup>3</sup>

Work out an estimate for the time taken to completely fill the fish tank.  
Give your answer in minutes.

.....minutes

**(Total for Question 6 is 4 marks)**

7



$ABCD$  is a parallelogram.

$$\text{Angle } BED = 3 \times \text{angle } FBE$$

$$\text{The size of angle } EFB : \text{the size of angle } EFC = 3 : 7$$

Work out the size of angle  $BEF$ .

Give a reason for each stage of your working.

.....  
 (Total for Question 7 is 5 marks)



8 A box contains  $n$  numbered counters.

The mean of the numbers on the counters in the box is 7

Another counter is added to the box with the number 13 on it.

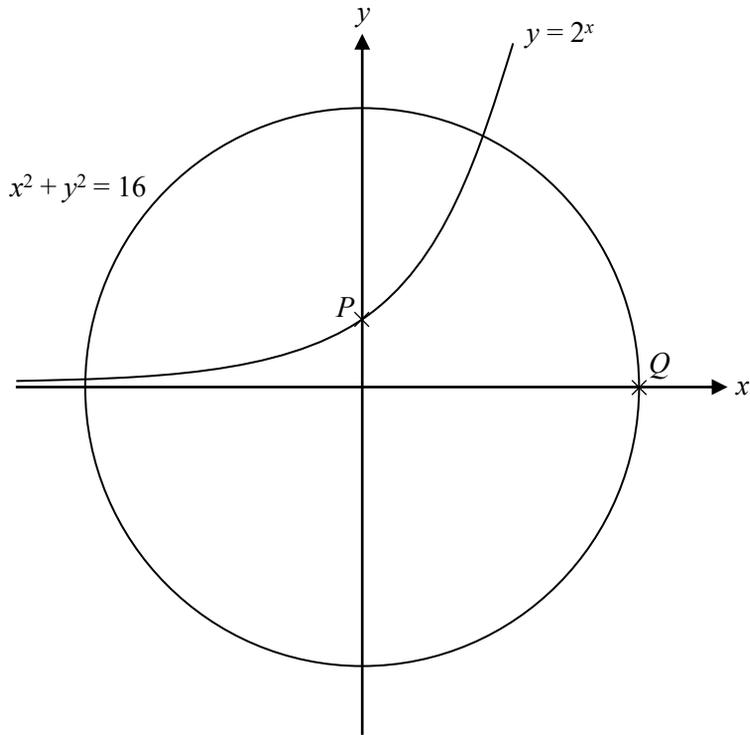
The mean of the numbers on the counters in the box is now 7.5

Work out the value of  $n$ .

$n =$  .....

**(Total for Question 8 is 4 marks)**

9 Sketches of the graphs of  $x^2 + y^2 = 16$  and  $y = 2^x$  are shown below.



Point  $P$  is on the  $y$ -axis and point  $Q$  is on the  $x$ -axis.

(a) Write down the coordinates of point  $P$ .

(....., .....)

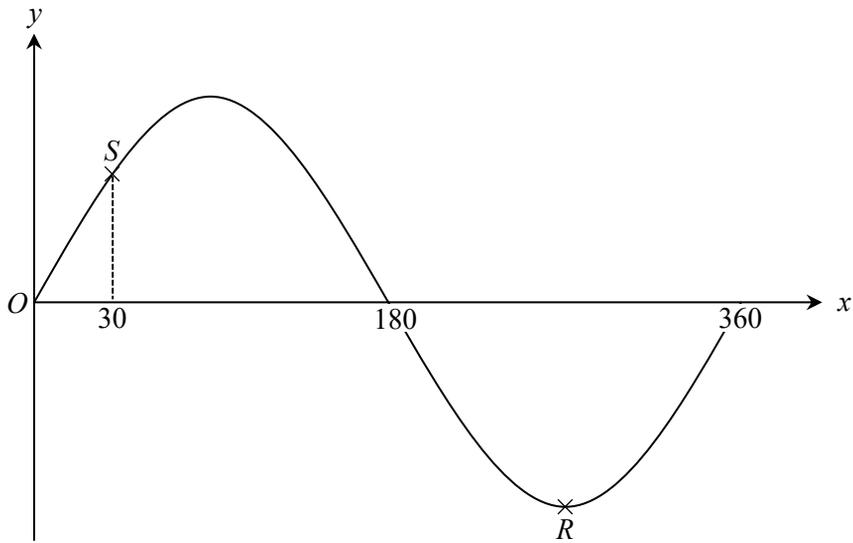
(1)

(b) Write down the coordinates of point  $Q$ .

(....., .....)

(1)

A sketch of the graph of  $y = \sin x^\circ$  is shown below.



Point  $R$  is a minimum point of the graph.

Point  $S$  is the point on the graph with  $x$ -coordinate 30.

(c) Write down the coordinates of point  $R$ .

(....., .....)

(d) Write down the coordinates of point  $S$ .

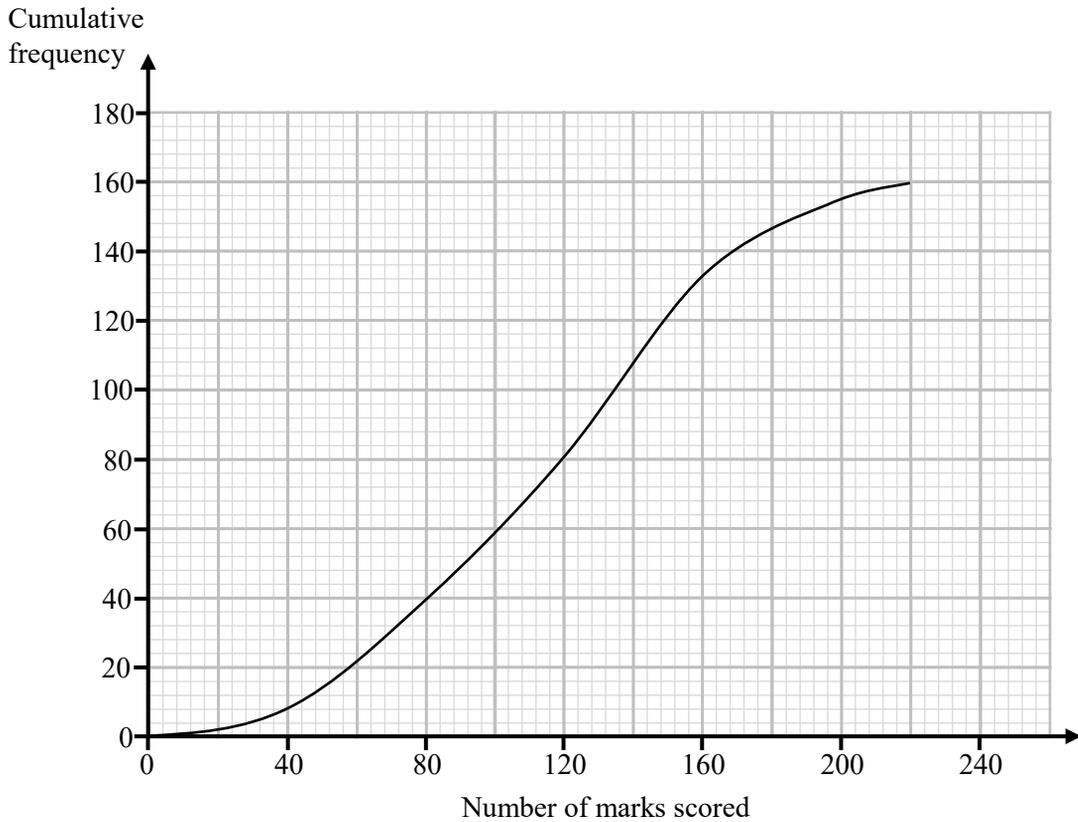
(1)

(....., .....)

(1)

**(Total for Question 9 is 4 marks)**

10 The cumulative frequency graph shows some information about the number of marks scored by 160 Year 11 students in a maths mock exam.



(a) Use your graph to find an estimate for the interquartile range of the marks of the 160 students.

..... marks  
(2)

The top performing 5% of the students in Year 11 achieved a grade 9 in their mock exam.

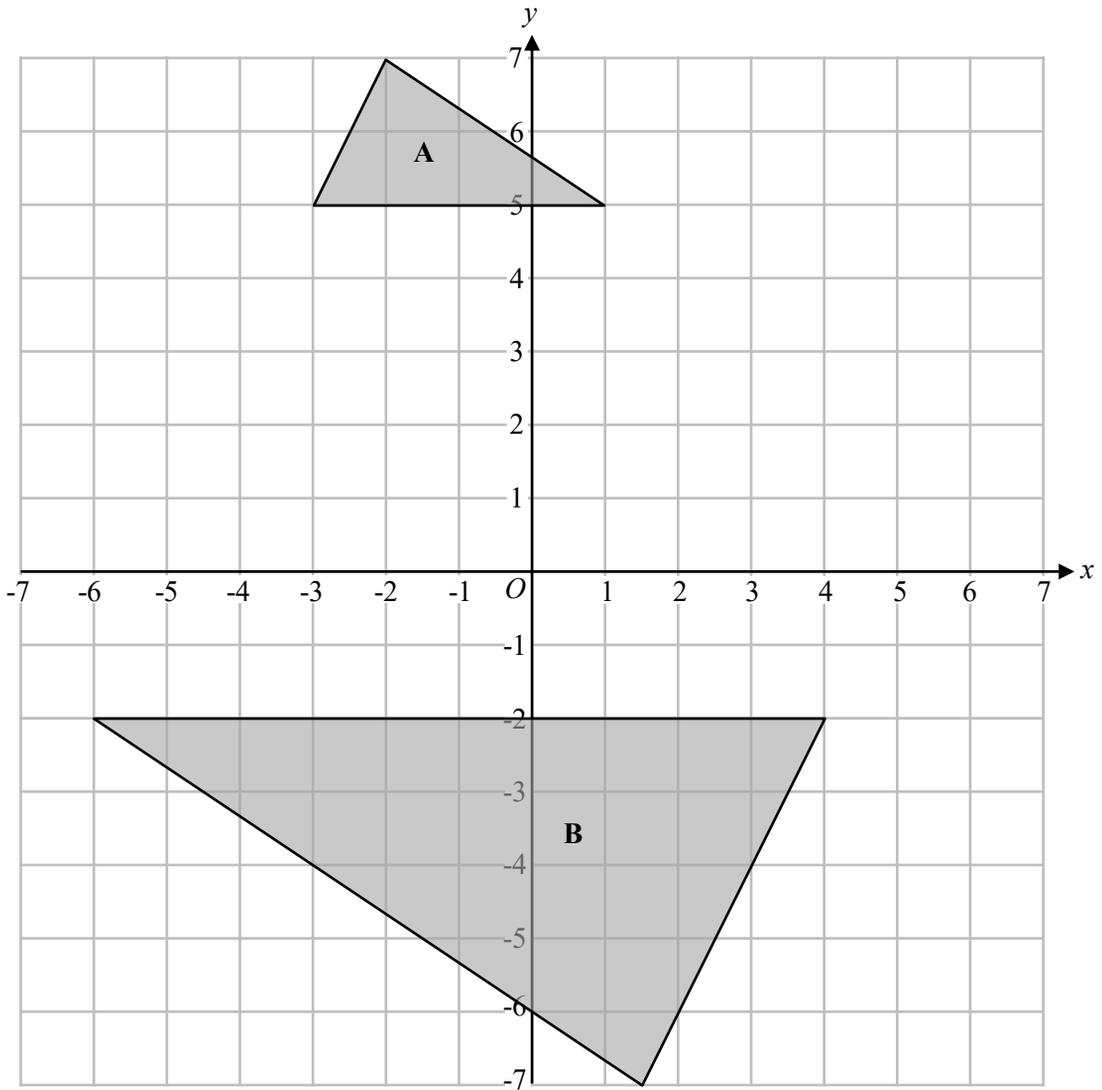
(b) Use your graph to find an estimate for the number of marks required for a grade 9.

..... marks  
(2)

(Total for Question 10 is 4 marks)



11



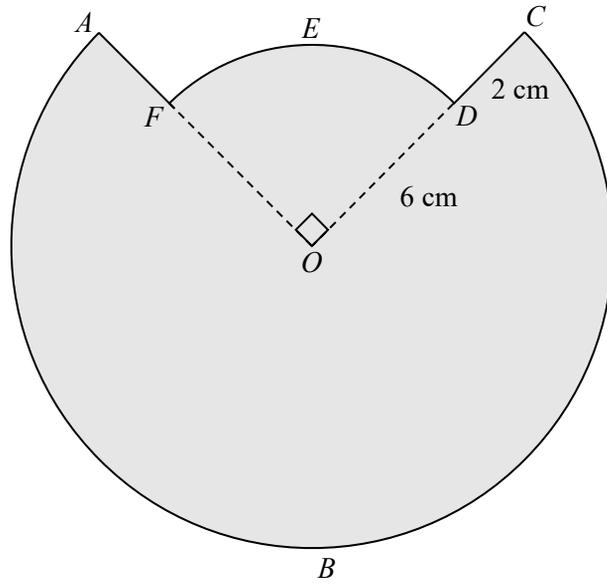
Describe fully the single transformation that maps shape A onto shape B.

.....

.....

(Total for Question 11 is 2 marks)

12 Sectors  $OABC$  and  $ODEF$  are joined together to make shape  $ABCDEF$ .



$OD = 6 \text{ cm}$   
 $DC = 2 \text{ cm}$

Work out the perimeter of shape  $ABCDEF$  giving your answer in terms of  $\pi$ .

..... cm  
 (Total for Question 12 is 4 marks)

13 (a) Solve  $4x^2 - 4x + 1 = 0$

.....  
(3)

(b) Simplify fully  $\frac{2x^2 + 10x}{x^2 - 25}$

.....  
(3)

**(Total for Question 13 is 6 marks)**

14  $44^3 = 85184$

(a) Write down the value of  $44^{-3}$

(b) Write down the value of  $4.4^3$

..... (1)

(c)  $4^{51} : 2^{99} = n : 1$ , where  $n$  is an integer.

..... (1)

Work out the value of  $n$ .

$n =$  ..... (3)

**(Total for Question 14 is 5 marks)**



15 Express  $(5.\dot{4})^{\frac{1}{2}}$  as a mixed number in its simplest form.

You must show all your working.

.....  
**(Total for Question 15 is 4 marks)**

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- 16**  $A = (1, -3)$   
 $B = (3, m)$   
 $C = (k, 2)$   
 $D = (5, 11)$

$AB$  is perpendicular to  $CD$   
Express  $k$  in terms of  $m$

.....  
**(Total for Question 16 is 5 marks)**

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17  $A$  is inversely proportional to  $B^3$

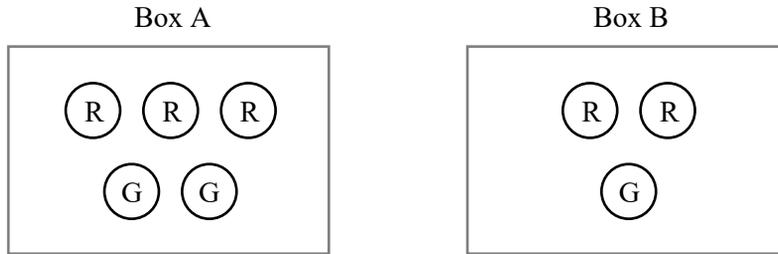
When  $A = \sqrt{12}$ ,  $B = \sqrt{3}$

Work out the value of  $A$  when  $B = 2^{\frac{1}{3}}$

.....  
**(Total for Question 17 is 4 marks)**

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- 18 Box A contains 3 red counters and 2 green counters.  
Box B contains 2 red counters and 1 green counter.



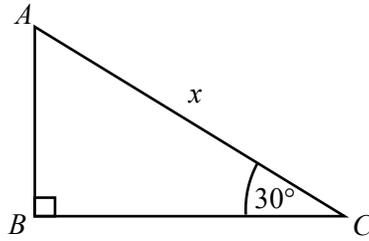
A counter from box A is selected at random and placed into box B.  
Then, two counters from box B are selected at random and placed into box A.

Work out the probability that after these counters are moved, there are no green counters in box B.

.....  
(Total for Question 18 is 4 marks)



19  $ABC$  is a right-angled triangle with perimeter  $P$ .



$$AC = x$$

$$\text{Angle } ACB = 30^\circ$$

$x = kP$  where  $k$  is a constant.

(a) Show that  $k = \frac{2}{3 + \sqrt{3}}$

(4)

(b) Write  $\frac{2}{3 + \sqrt{3}}$  in the form  $a - \frac{\sqrt{3}}{b}$  where  $a$  and  $b$  are integers.

.....  
(3)

(Total for Question 19 is 7 marks)

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**TOTAL FOR PAPER IS 80 MARKS**

