



Class
Maths

Video Solutions



PRACTICE PAPER FOR

Edexcel Paper 2H (June 2026)

----- Disclaimer -----

This paper has been created based on some of the common paper 2/3 topics from previous years and also careful analysis of what topics have already appeared in paper 1. The paper should be excellent at helping students revise for exams, however it should not be relied upon as the basis for revision. The topics from this paper may well appear in the real exams, however there is absolutely no guarantee of this. Some topics may appear, some may not. Despite what you might see on social media it is not possible to “predict” the paper. This is usually what people say when they are selling you something...

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

You can find a link to this paper and more completely free resources at www.1stclassmaths.com

----- Copyright -----

This paper and all resources hosted on the website www.1stclassmaths.com are free for personal and educational use only.

I do not give permission for reproduction, modification, distribution, or commercial exploitation of these materials in any format including use on third party websites and social media platforms without prior written permission. For permission requests please contact me via email.

Full copyright notice at <https://www.1stclassmaths.com/copyrightnotice>

Are you taking A-level maths next year?

Scan the QR code for more information on the
fx-CG100, the ultimate calculator for A Level Maths.



Answer ALL questions

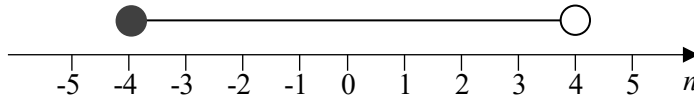
Write your answers in the spaces provided

You must write down all the stages in your working.

1 Expand and simplify $8(c - 1) - 3(2c - 5)$

.....
(Total for Question 1 is 2 marks)

2 The number line below shows an inequality for n .



(a) Given that n is an integer, write down the greatest possible value of n .

.....
(1)

(b) Solve $5x + 4 \geq 20$

.....
(2)

(Total for Question 2 is 3 marks)



3 (a) Use your calculator to work out $\sqrt{9 - \frac{2.1^4}{\pi}}$

Write down all the figures on your calculator display.

..... (2)

(b) Round your answer from part (a) to 3 significant figures.

..... (1)

(Total for Question 3 is 3 marks)

4 Change a speed of 15 metres per second into kilometres per hour.

..... kilometres per hour

(Total for Question 4 is 3 marks)

5 The table shows information about the population of five different countries.

Country	Population
Estonia	1.4×10^6
France	6.8×10^7
Germany	8.4×10^7
Hungary	9.6×10^6
San Marino	3.4×10^4

(a) Write down the name of the country with the greatest population.

.....
(1)

(b) Write down the name of the country with the median population.

.....
(1)

(c) Work out how many times greater the population of France is than the population of San Marino.
Give your answer as an ordinary number.

.....
(2)

(Total for Question 5 is 4 marks)

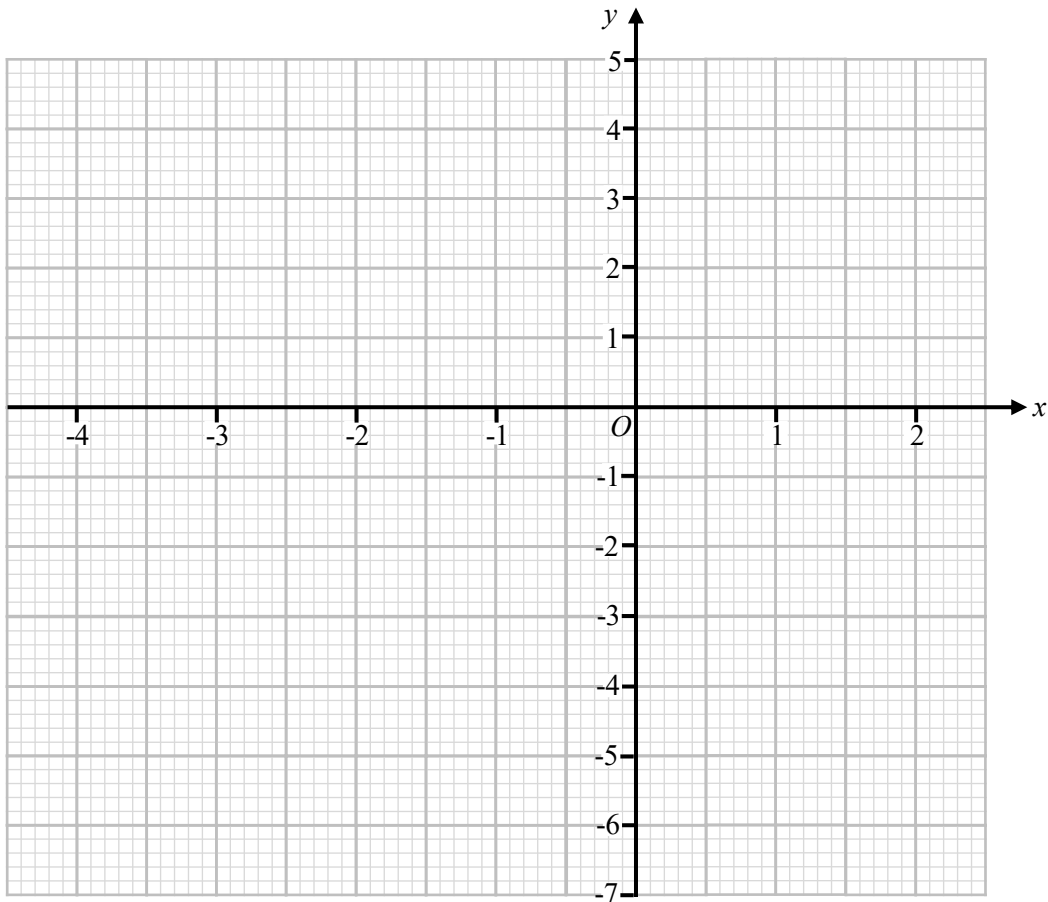


6 (a) Complete the table of values for $y = x^2 + 2x - 4$

x	-4	-3	-2	-1	0	1	2
y		-1		-5		-1	4

(2)

(b) On the grid, draw the graph of $y = x^2 + 2x - 4$ for values of x from -4 to 2



(2)

(c) Use your graph to estimate the roots of the equation $x^2 + 2x - 4 = 0$

.....

(2)

(Total for Question 6 is 6 marks)

7 The table shows information about the masses of 20 metal bolts produced by a company.

Mass, m (g)	Frequency
$20 < m \leq 30$	4
$30 < m \leq 40$	5
$40 < m \leq 50$	9
$50 < m \leq 60$	2

(a) Work out an estimate for the mean mass of the 20 bolts.

..... g
(3)

Each bolt is made from a metal with a density of 8 g/cm^3

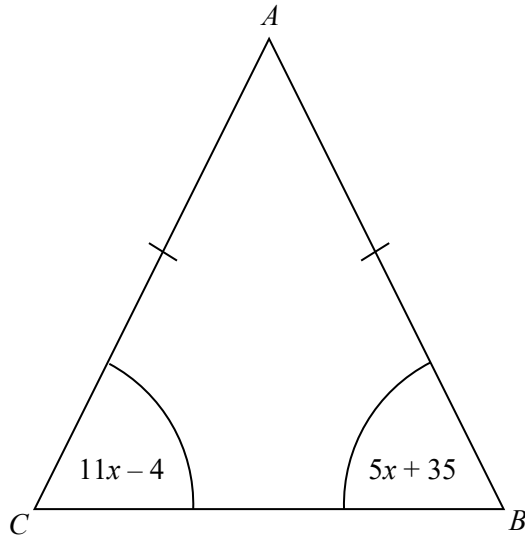
(b) Work out the volume a bolt that has a mass of 44 g

..... cm^3
(2)

(Total for Question 7 is 5 marks)



8 ABC is a triangle.



$AB = AC$

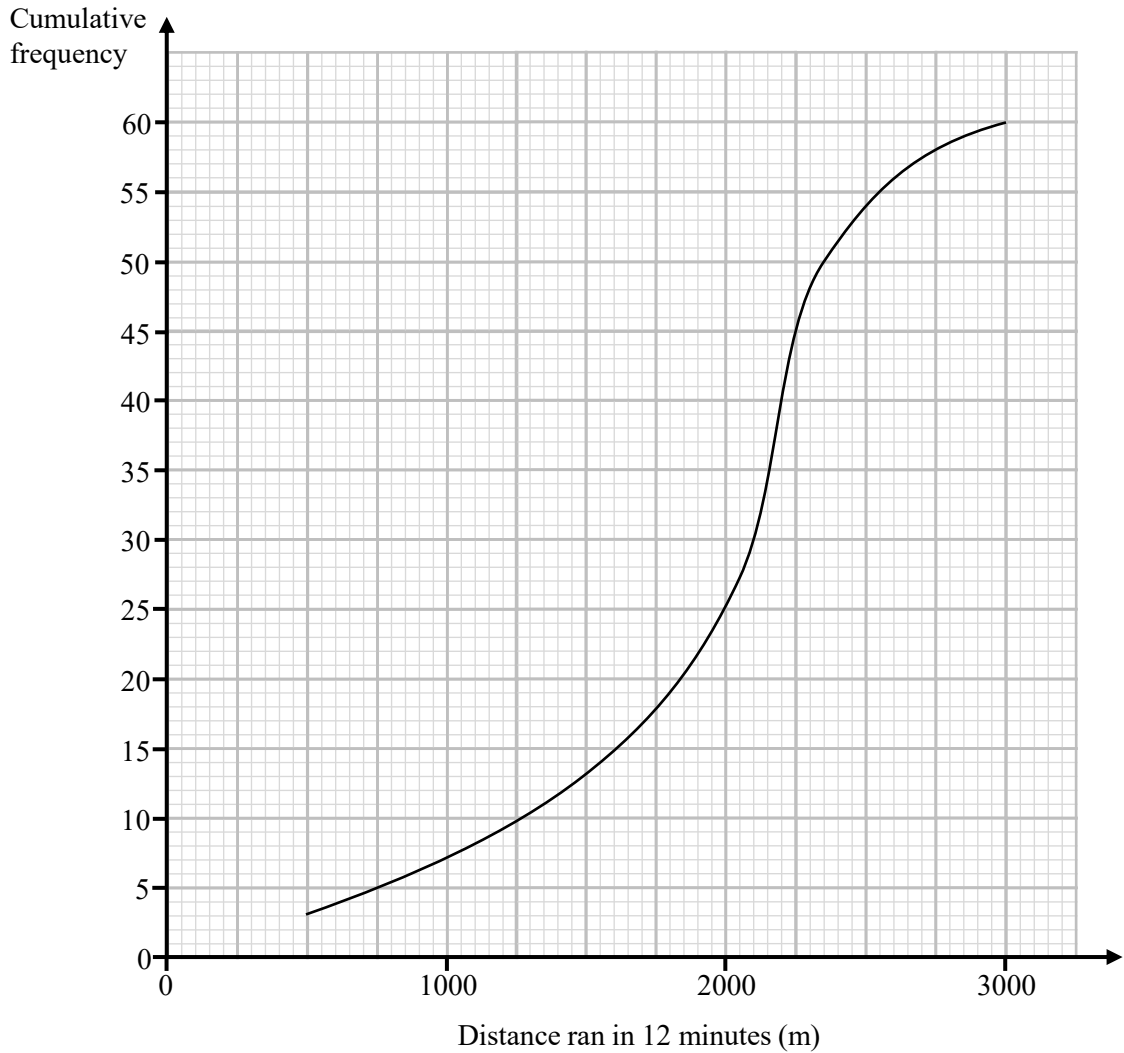
All angles are measured in degrees.

Find the size of angle CAB .

.....
(Total for Question 8 is 5 marks)

9 60 students from Year 9 and 60 students from Year 10 take part in a 12 minute run.

The cumulative frequency graph shows information about the distances, in metres, ran by the **Year 9** students during the 12 minute run.



(a) Use the graph to find an estimate for the median distance ran by Year 9 students.

.....m
(1)



(b) Use the graph to find an estimate for the interquartile range of the distances ran by Year 9 students.

.....m
(2)

The table below shows information about the distances ran by the **Year 10** students.

Year 10 Students	
Median	2300 m
Interquartile Range	800 m

(c) Use the information above and your answers to parts (a) and (b) to compare the distances ran by the Year 9 and Year 10 students.

.....

.....

.....

.....

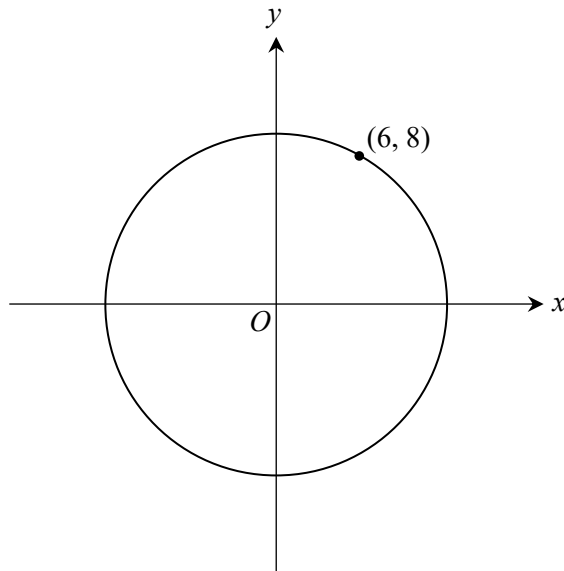
.....

.....

.....

(2)
(Total for Question 9 is 5 marks)

10 A circle, centre O , passes through the point $(6, 8)$



Work out the equation of the circle.

.....
 (Total for Question 10 is 2 marks)

11 L_1 and L_2 are perpendicular lines.

The equation of L_1 is $y = 3x + 4$

The equation of L_2 is $y = kx + 5$

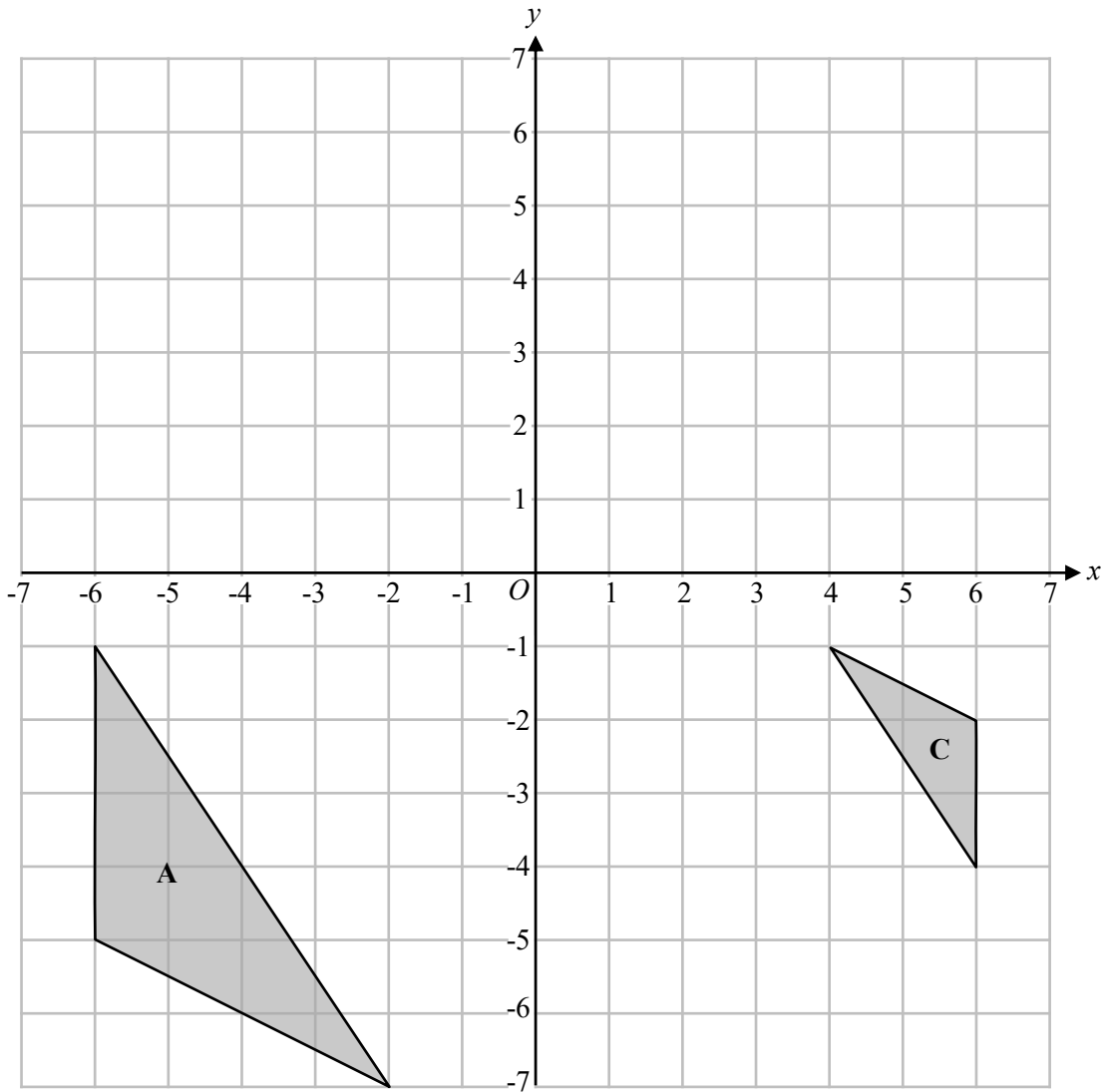
Write down the value of k .

$k =$

(Total for Question 11 is 1 mark)



12



Triangle **A** is enlarged, with centre of enlargement $(0, 1)$, to give triangle **B**.

Triangle **B** is then translated by the vector $\begin{pmatrix} p \\ q \end{pmatrix}$ to give triangle **C**.

(a) Draw triangle **B** onto the grid above. (2)

(b) Write down the values of p and q .

$p = \dots\dots\dots$

$q = \dots\dots\dots$

(2)

(Total for Question 12 is 4 marks)

13 x and y are positive integers.

(a) Simplify xy^0

.....
(1)

(b) Simplify $\left(\frac{x^{400}}{x^{256}}\right)^{\frac{3}{2}}$

.....
(2)

(Total for Question 13 is 3 marks)

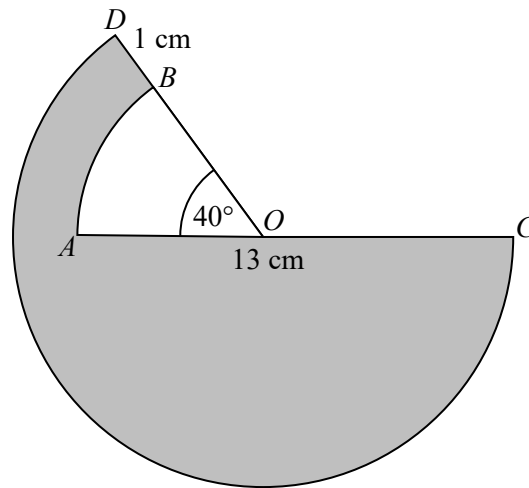
14 Isaac creates a 3-digit code where each digit is a number from 1 to 9.

Work out how many different codes can Isaac make where **at least** one of the digits is a prime number.

.....
(Total for Question 14 is 3 marks)



15 The diagram below shows sector OAB and sector OCD .



AOC is a straight line.

Angle $AOB = 40^\circ$

$AC = 13$ cm

$BD = 1$ cm

Find the area of the shaded region.

Give your answer to 3 significant figures.

..... cm²

(Total for Question 15 is 5 marks)

16 x is directly proportional to \sqrt{y}

y is inversely proportional to z^3

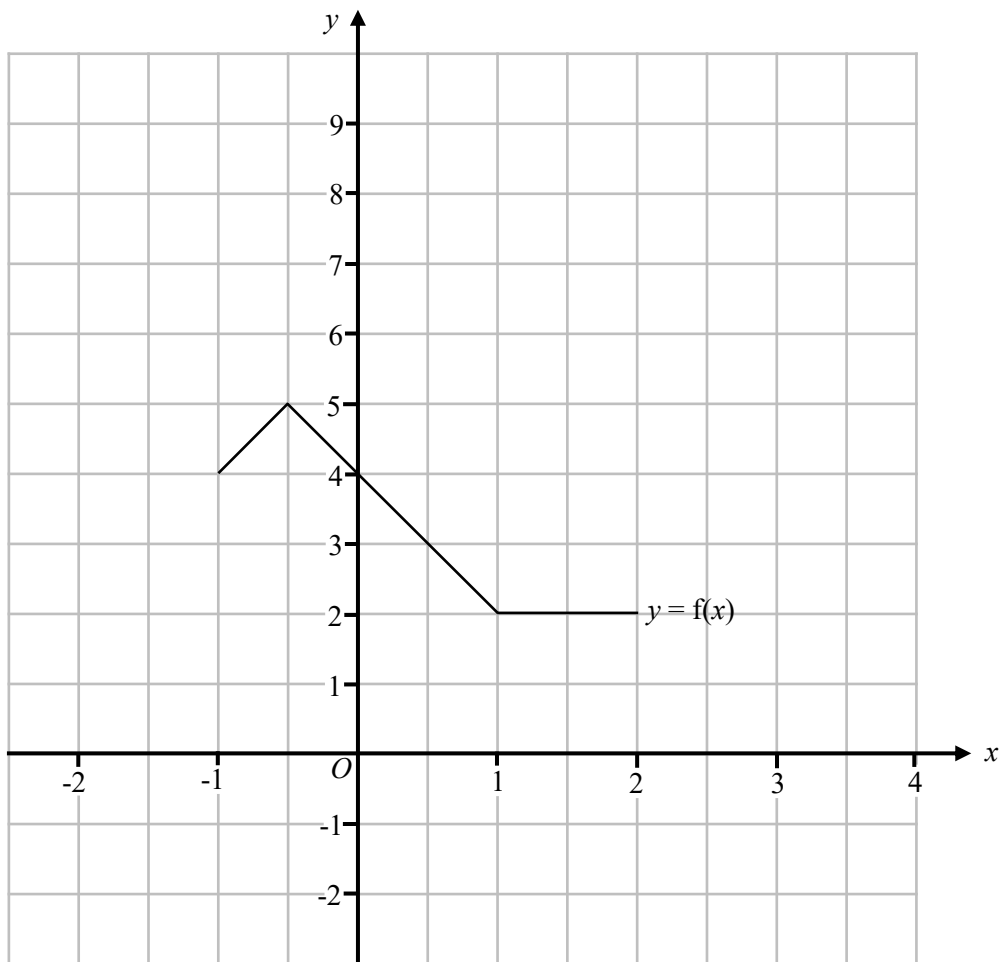
When $x = 0.8$, $y = 0.16$ and $z = 5$

Find the value of x when $z = 20$

.....
(Total for Question 16 is 4 marks)



17 The graph of $y = f(x)$ is shown on the grid below.



Draw the graph of $y = f(x - 1) + 2$ onto the grid above.

(Total for Question 17 is 2 marks)

18 The value of a house increases by $x\%$ each year.

In 2023 the house was valued at £224,000 (to the nearest thousand)

In 2026 the same house was valued at £268,000 (to the nearest thousand)

Work out the upper bound for the value of x .

Give your answer to 1 decimal place.

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



19 $f(x) = x - 1$

$$g(x) = \frac{x}{5 - x}$$

$$h(x) = gf(x)$$

Find $h^{-1}(x)$

$$h^{-1}(x) = \dots\dots\dots$$

(Total for Question 19 is 5 marks)

20 Bag A and bag B both contain only blue and red counters.

Bag A contains 8 blue counters and 4 red counters.

Bag B contains 6 blue counters and x red counters.

A counter is taken at random from bag A and placed into bag B.

A counter is then taken at random from bag B.

The probability that the counter taken from bag B is red is $\frac{2}{3}$

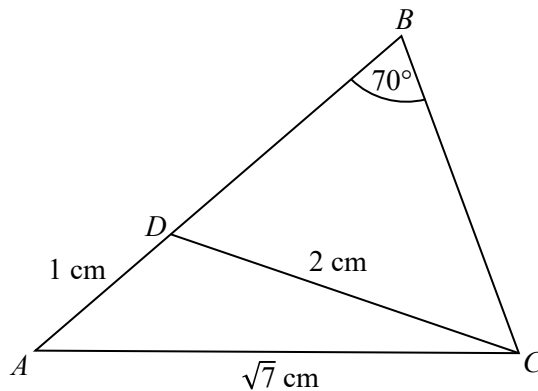
Work out the value of x .

$x =$

(Total for Question 20 is 5 marks)



21 Here is triangle ABC .



$AC = \sqrt{7}$ cm

D is a point on the line AB such that

$AD = 1$ cm

$CD = 2$ cm

Angle $DBC = 70^\circ$

Find the area of triangle BCD

Give your answer to 3 significant figures.

..... cm²

(Total for Question 21 is 6 marks)

TOTAL FOR PAPER IS 80 MARKS