1st Class Maths

Video Solutions

SCAN ME

PRACTICE PAPER FOR

Edexcel Paper 3F (June 2026)

---------- Disclaimer ----------

This paper has been created based on some of the common paper 3 topics from previous years and also careful analysis of what topics have already appeared in paper 1/2. 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

Answer ALL questions

Write your answers in the spaces provided

You must write down all the stages in your working.

1 Write 0.23 as a fraction

.....

(Total for Question 1 is 1 mark)

2 Write down the value of the 1 in the number 3142

.....

(Total for Question 2 is 1 mark)

3 Write down an even multiple of 11

.....

(Total for Question 3 is 1 mark)

4 Write the following numbers in order of size.
Start with the smallest.

7 –1 4 6 0 –5

.....

(Total for Question 4 is 1 mark)

5 Work out $\sqrt{1936}$

.....

(Total for Question 5 is 1 mark)

6 Contestants on a game show select either a physical, mental, skill or mystery game.

Richard asks 20 contests which game they wish to select.

Here are the results.

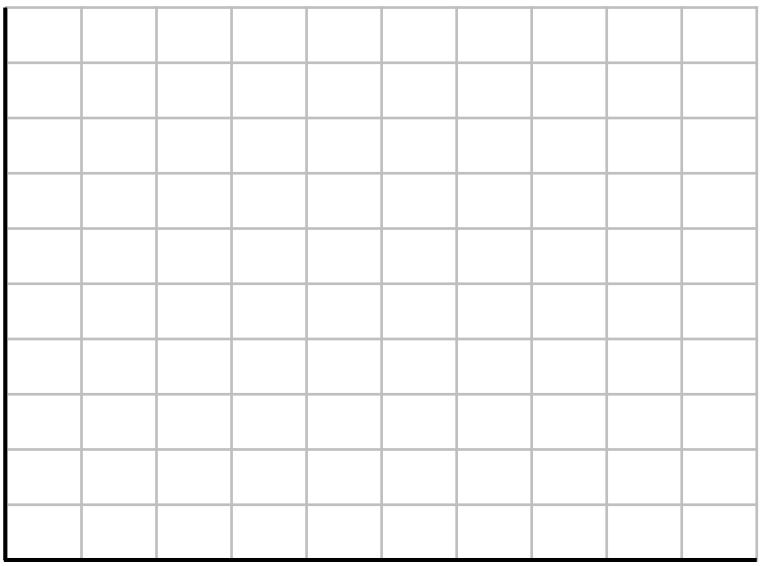
mental	skill	physical	mystery	physical
physical	physical	mental	mental	mystery
physical	mental	physical	physical	skill
mental	physical	mystery	skill	physical

(a) Complete the frequency table.

Game Type	Tally	Frequency
physical		
mental		
skill		
mystery		

(b) Draw a bar chart to show your results.

(2)



(3)

(Total for Question 6 is 5 marks)

Turn over ▶

7 (a) Simplify $3a + 4c - a + 6c$

.....

(2)

(b) Solve $h + h + 3 = 20$

.....

(2)

(Total for Question 7 is 4 marks)

8 $\frac{1}{5}$ of the students in a class wear glasses.

(a) Write the ratio of students who wear glasses to those who do not wear glasses.

.....

(1)

94.5% of the students from the class handed in homework.

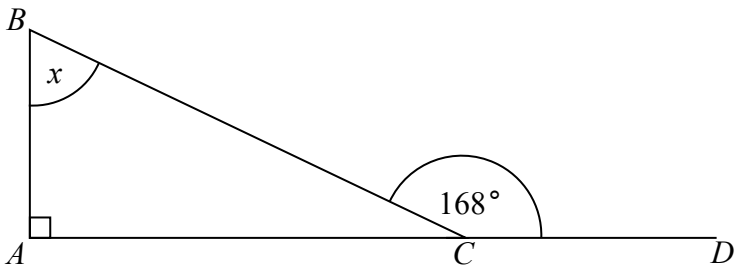
(b) Write down the percentage of students in the class that did not hand in homework.

..... %

(1)

(Total for Question 8 is 2 marks)

9



ABC is a right-angled triangle.
ACD is a straight line.

Work out the size of the angle marked *x*.

.....°

(Total for Question 9 is 3 marks)

10 Frankee, Eamon, Nelly and Kelly audition to sing at the school show.

The judges must pick two of them to sing a duet.

List all the possible ways that the judges can select two people to sing a duet.

.....

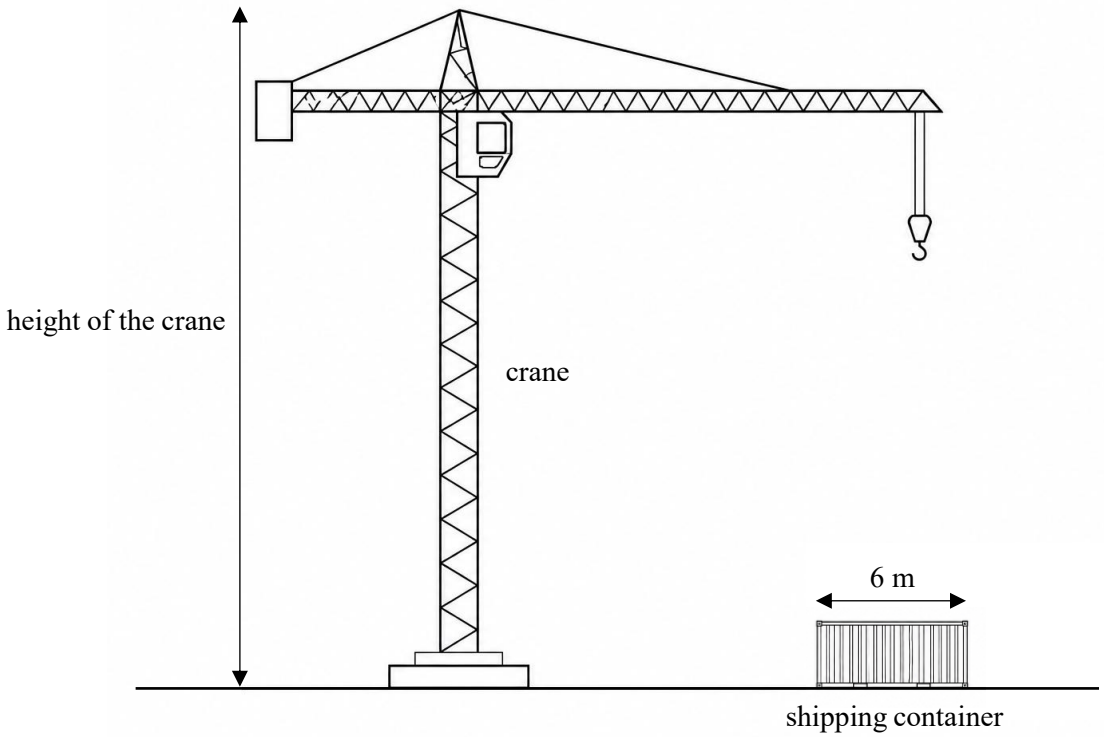
.....

.....

.....

(Total for Question 10 is 2 marks)

11 The accurate scale drawing shows a crane and a shipping container.



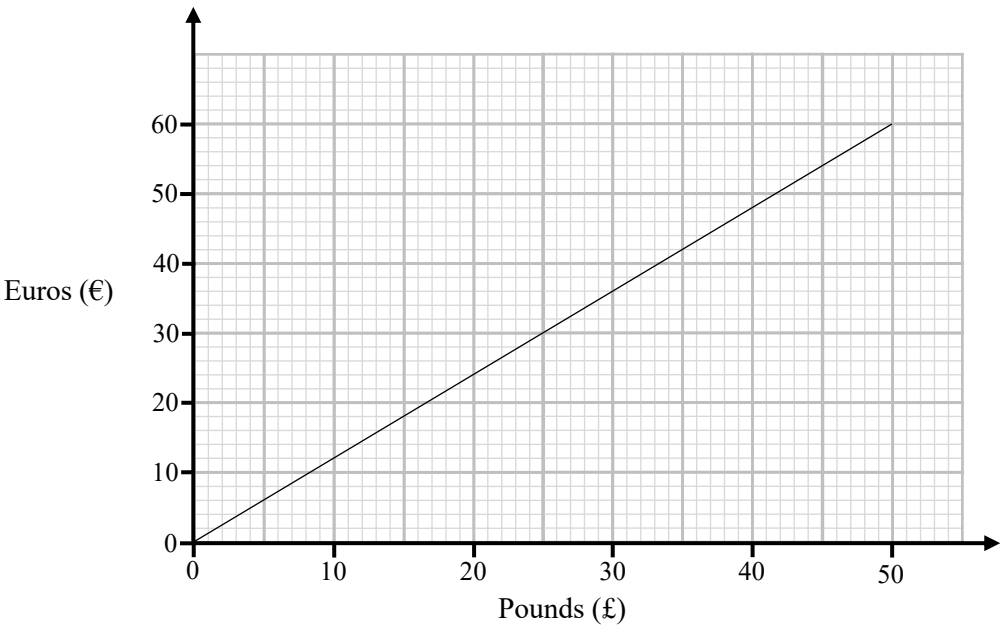
The real width of the shipping container is 6 metres.

Find and estimate for the real height, in metres, of the crane.

..... metres

(Total for Question 11 is 2 marks)

12 Raheem used this graph to change between Pounds (£) and Euros (€) before and after his holiday.



Before his holiday Raheem converts £400 into euros (€)

(a) Work out how many euros Raheem receives.

€.....

(2)

After his holiday Raheem converts €84 back into pounds (£)

(b) Work out how many pounds Raheem receives.

£.....

(2)

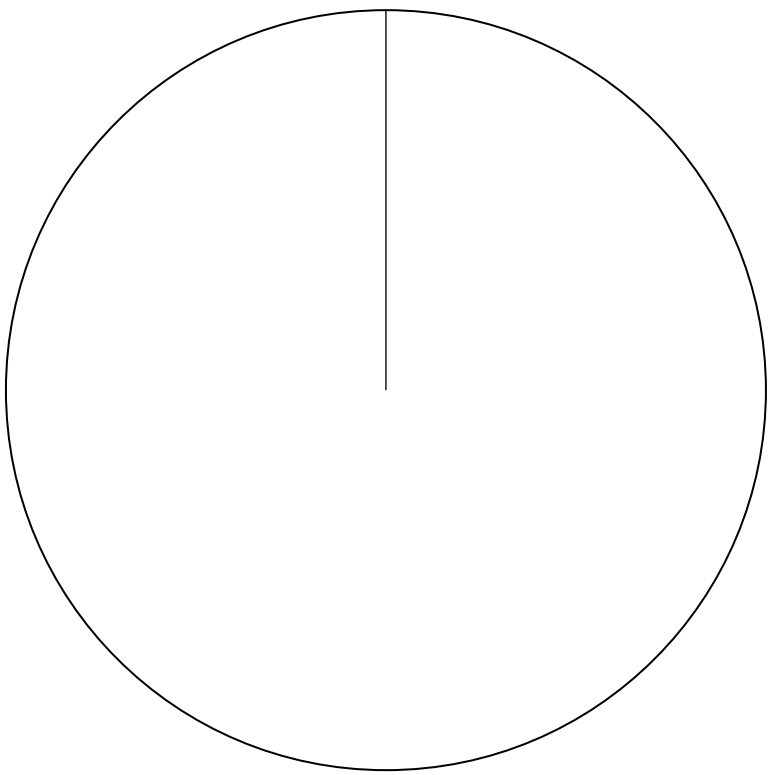
(Total for Question 12 is 4 marks)

13 72 students in a music school were asked their favourite instrument.

The table below shows the results.

Answer	Frequency
Piano	20
Violin	14
Trumpet	7
Other	31

Draw an accurate pie chart for this information.

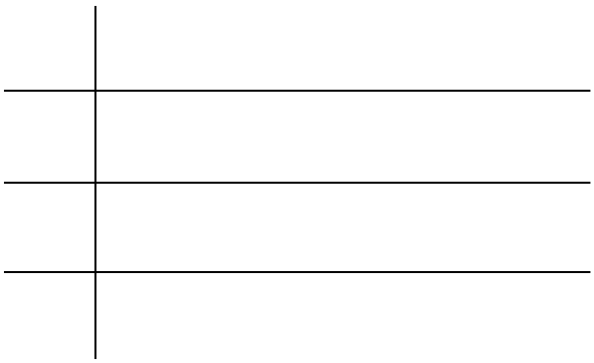


(Total for Question 13 is 3 marks)

14 15 teachers were asked their mobile phone battery percentage when they arrived to work.

88	94	99	92	92
99	72	100	74	76
85	84	91	74	90

(a) Show this information in a stem and leaf diagram. **(3)**



Key

One of the teachers is selected at random.

(b) Write down the probability that their phone battery percentage was over 80%

.....

(1)

(Total for Question 14 is 4 marks)

15 A coffee shop received 120 orders on Tuesday morning.

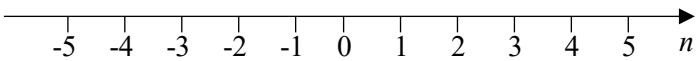
40 of the orders were to take out.
61 of the eat in orders were for food **and** drink.
14 orders were for food only.
32 of the orders were for drink only and $\frac{1}{4}$ of these were to eat in.

Complete the two-way table below.

	Food and drink	**Food only**	**Drink only**	**Total**
Eat in				
Take out				
Total				

(Total for Question 15 is 3 marks)

16 (a) On the number line, show the inequality $-4 < x \leq 3$



(2)

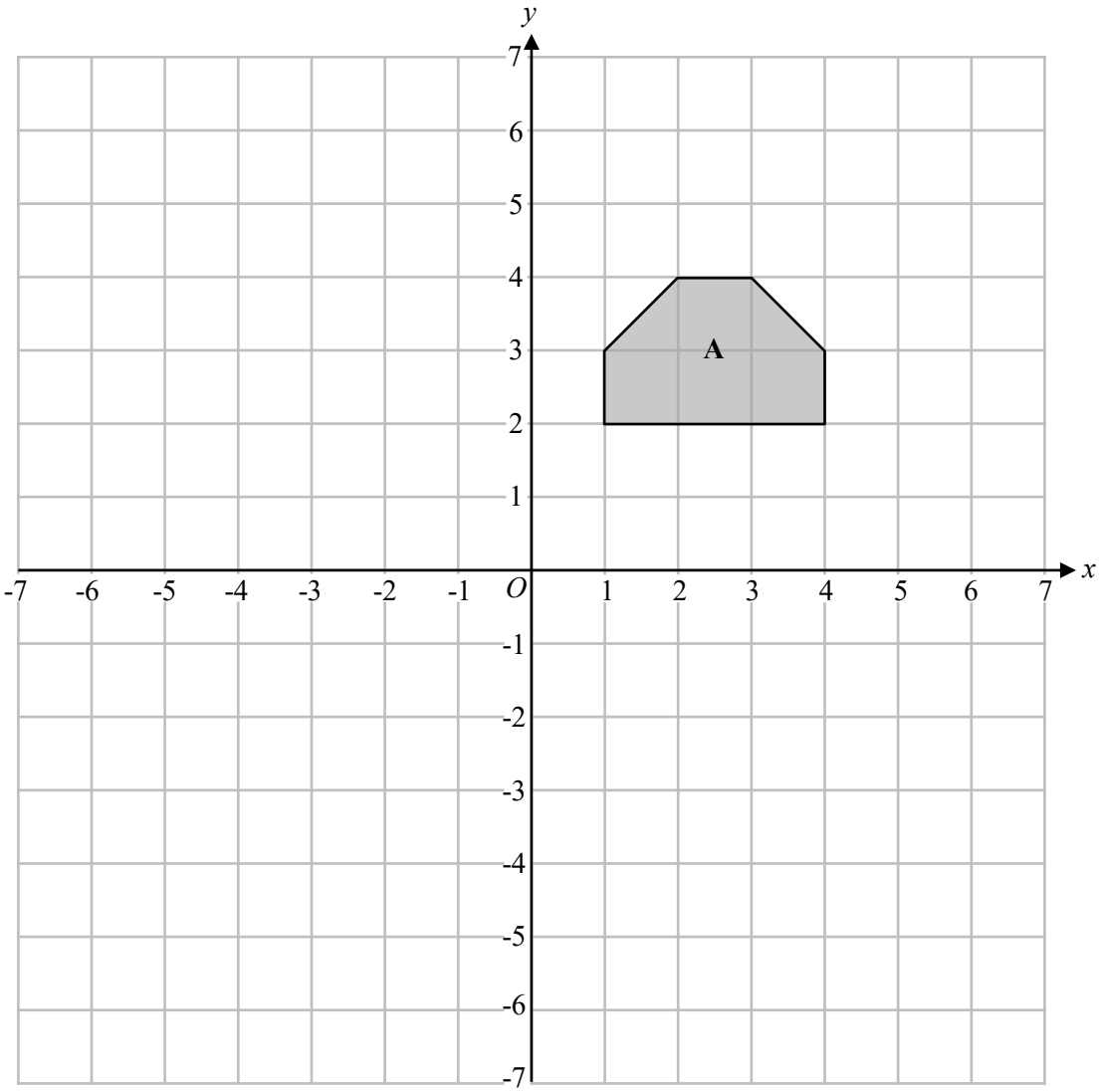
(b) Solve $\frac{a}{2} > 6$

.....

(1)

(Total for Question 16 is 3 marks)

17



(a) Rotate shape **A** 180° about the origin.

Label the new shape **B**

(2)

(b) Translate shape **A** by the vector $\begin{pmatrix} -2 \\ 3 \end{pmatrix}$

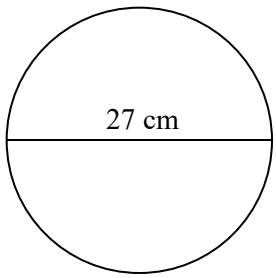
Label the new shape **C**

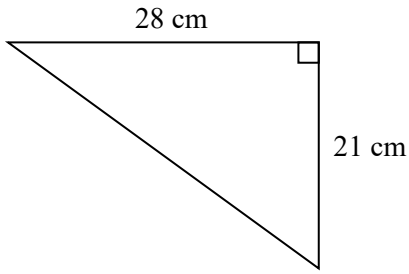
(2)

(Total for Question 17 is 4 marks)

Turn over ▶

18 Here is a circle and a right-angled triangle.





The diameter of the circle is 27 cm

Show that the circumference of the circle is greater than the perimeter of the triangle.

(Total for Question 18 is 4 marks)

19 (a) Simplify $(m^6)^5$

.....

(1)

(b) Simplify $\dfrac{20a^9b^{20}}{4a^3b^{-4}}$

.....

(2)

(c) Expand and simplify fully $7(x + 6) - 2(x + 11)$

.....

(2)

(Total for Question 19 is 5 marks)

20 The table shows information about the temperatures, T °C, of 31 days during May.

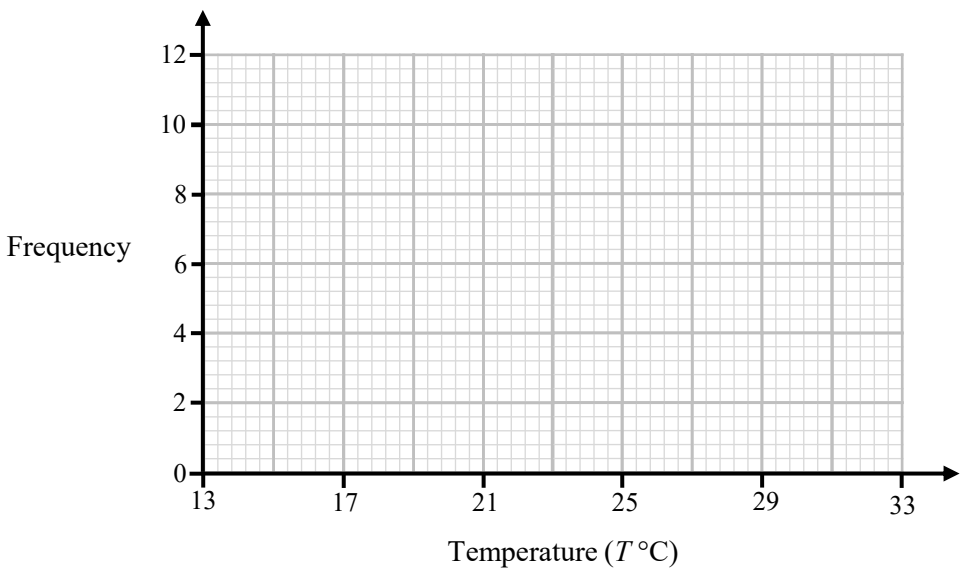
Temperature (T °C)	Frequency
$13 < T \leq 17$	2
$17 < T \leq 21$	7
$21 < T \leq 25$	6
$25 < T \leq 29$	10
$29 < T \leq 33$	6

(a) Find the class interval that contains the median.

.....

(1)

(b) On the grid, draw a frequency polygon for the information in the table.



(2)

(Total for Question 20 is 3 marks)

21 (a) Use your calculator to work out $\dfrac{2.3^5}{\sqrt{10-2\pi}}$

Write down all the figures on your calculator display.

.....

(2)

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

.....

(1)

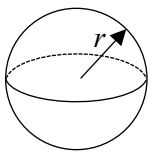
(Total for Question 21 is 3 marks)

22 A sphere with a radius of 6 cm has a mass of 2.5 kg.

The sphere is made from a metal with density x g/cm^3

Work out the value of x to 3 decimal places.

Volume of a Sphere $= \frac{4}{3}\pi r^3$



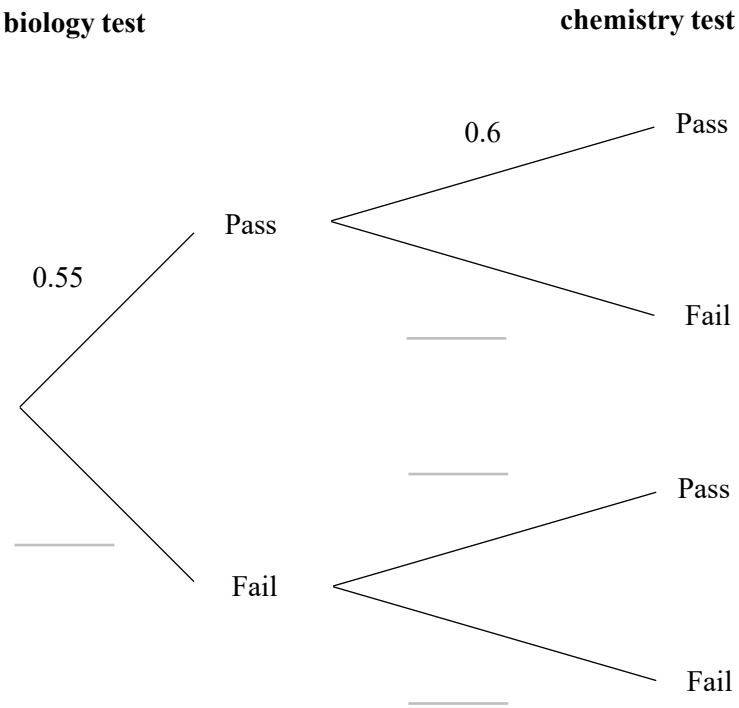
$x =$ .....

(Total for Question 22 is 4 marks)

23 Kirsty has a biology test and a chemistry test.

The probability that she passes her biology test is 0.55
The probability that she passes her chemistry test is 0.6

(a) Complete the probability tree diagram.



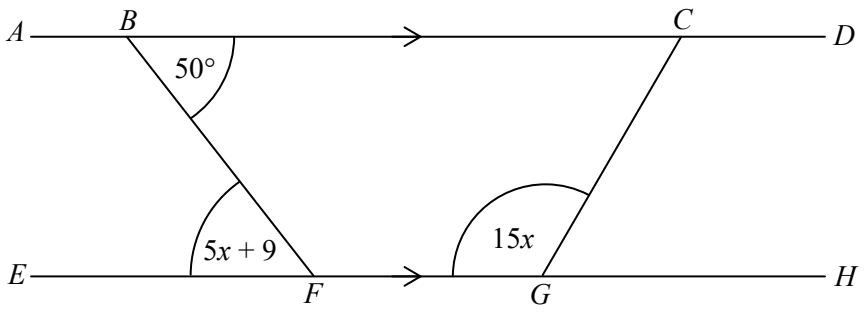
(2)

(b) Show that the probability that Kirsty passes **only** one of the tests is less than 50%

(2)

(Total for Question 23 is 4 marks)

24 Straight lines *ABCD* and *EFGH* are parallel.



Work out the size of angle *BCG*.

.....°

(Total for Question 24 is 5 marks)

25 Tom runs two laps of a 400 metre athletics track.
He runs the first lap in 73.6 seconds.
He runs the second lap with a speed that is 15% faster than his first lap.

Work out how long it takes Tom to run the second lap.

..... seconds

(Total for Question 25 is 4 marks)

26 Convert 9.5 m^2 into cm^2

..... cm^2

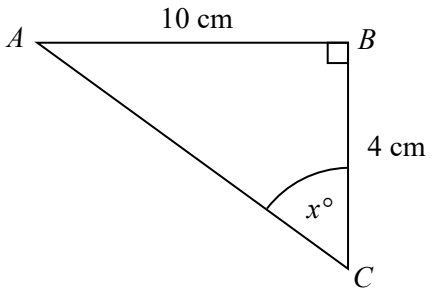
(Total for Question 26 is 1 mark)

27 Make m the subject of $y = mx + c$

.....

(Total for Question 27 is 2 marks)

28 Here is a right-angled triangle.



Kriss works out the size of the angle marked x.

His working is shown below.

$$\tan(x°) = \frac{4}{10}$$

$$x = \tan^{-1}\left(\frac{4}{10}\right)$$

$$x = 21.8°$$

Explain the mistake that Kriss has made.

.....

.....

.....

(Total for Question 28 is 1 mark)

TOTAL FOR PAPER IS 80 MARKS