1st Class Maths

Video Solutions

SCAN ME

PRACTICE PAPER FOR

Edexcel Paper 1F (June 2025)

Disclaimer

This paper has been created based on some of the common paper 1 topics from previous years. 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 27% as a decimal.

.....

(Total for Question 1 is 1 mark)

2 Change 4 kilograms into grams

.....g

(Total for Question 2 is 1 mark)

3 Write 7360 correct to the nearest 100

.....

(Total for Question 3 is 1 mark)

4 Work out $\frac{1}{3}$ of 60

.....

(Total for Question 4 is 1 mark)

5 Write down a number that is a multiple of both 4 and 10

.....

(Total for Question 5 is 1 mark)

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

0.5 0.54 0.405 0.06

.....

(Total for Question 6 is 1 mark)

7 (a) Simplify $5 \times a \times a$

.....

(1)

(b) Simplify $8m^2 \div 2$

.....

(1)

(c) Simplify $5x + 3y - x - 5y$

.....

(2)

(d) $p = 5$ $q = 3$
Work out the value of $p + q^2$

.....

(2)

(Total for Question 7 is 6 marks)

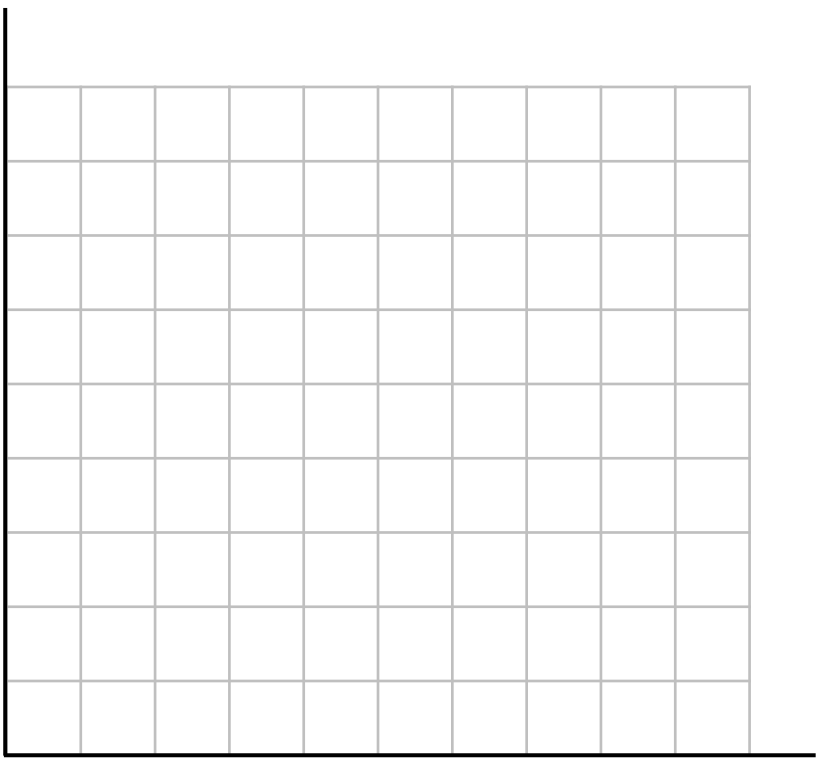
Turn over ▶

8 32 students were asked what their favourite season was.

The table shows the results.

Favourite Season	Frequency
Spring	8
Summer	14
Autumn	3
Winter	7

On the grid below, draw a bar chart for this information.



(Total for Question 8 is 3 marks)

9 Donald buys

3 glasses of lemonade that cost £1.25 each
1 bunch of grapes costs £2.40

He pays with a £10 note.
Work out how much change Donald receives.

£.....

(Total for Question 9 is 4 marks)

10 A maths class has 28 students.
On Monday, 20 of the students were on time to a lesson and 8 students were late.

Number of students who were on time : number of students who were late = n : 1

(a) Work out the value of n.

n = ...

(2)

In an English class

number of students who are 15 years old : number of students who are 16 years old = 2 : 3

(b) Write down the fraction of the English class that are 15 years old.

.....

(1)

(Total for Question 10 is 3 marks)

11 A bag contains 42 coloured counters.
A counter is selected at random from the bag.

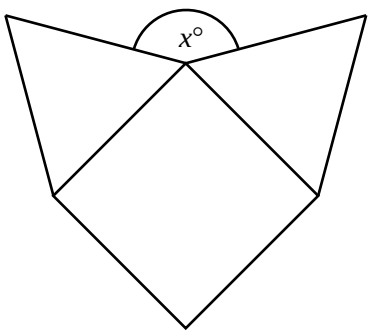
The probability that the counter selected is red is $\frac{2}{3}$

Work out the number of red counters in the bag.

.....

(Total for Question 11 is 2 marks)

12 The diagram shows a square and two equilateral triangles.



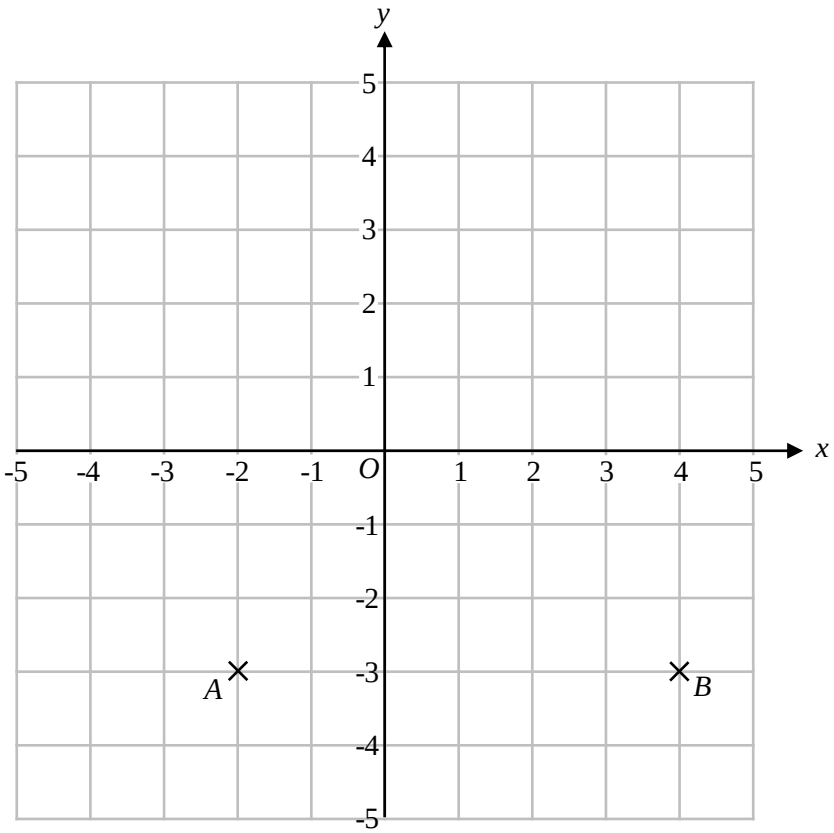
Work out the size of the angle marked x

°

.....

(Total for Question 12 is 3 marks)

13 Points A and B are shown on the centimetre grid below.



(a) Write down the equation of the straight line that goes through points A and B.

.....

(1)

$C = (1, 2)$

(b) Work out the area of triangle ABC.

..... cm^2

(3)

(Total for Question 13 is 4 marks)

14 (a) Solve $2x - 10 = 11$

$x =$ .....

(2)

(b) Expand $7(a - b)$

.....

(1)

(c) Factorise $6n - 15$

.....

(1)

(Total for Question 14 is 4 marks)

15 Work out 115% of 5000

.....

(Total for Question 15 is 3 marks)

16 The table below shows the amount of energy in some breakfast items.

Breakfast Item	Energy
Cornflakes	1600 kJ per 100 g
Milk	270 kJ per 100 ml
Orange Juice	200 kJ per 100 ml

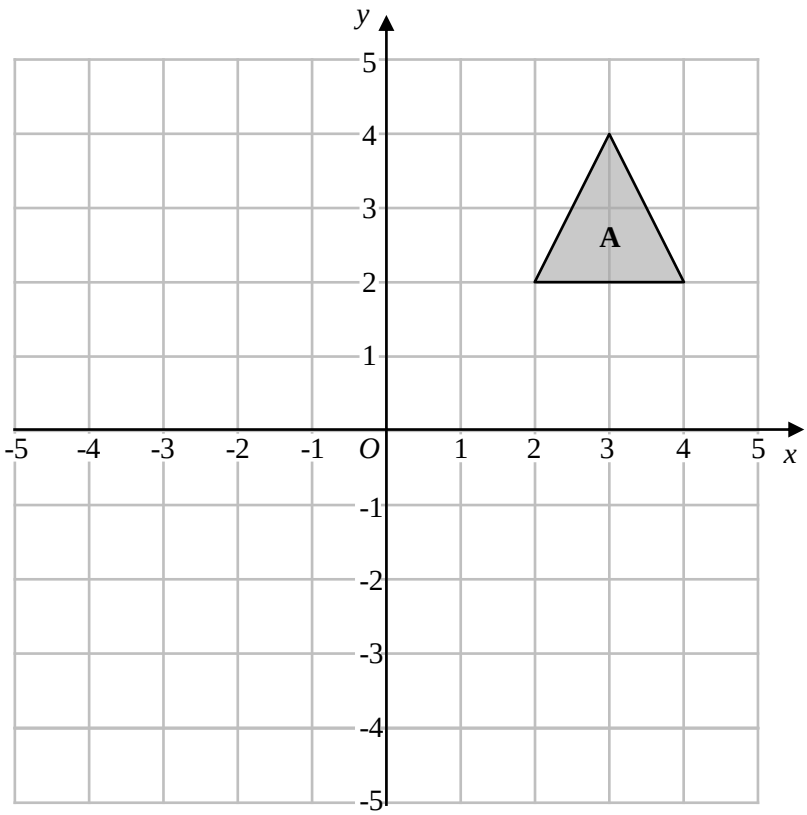
For breakfast Nigel has

50 g of cornflakes
250 ml of milk
300 ml of orange juice

Show that Nigel's breakfast has more than 2000 kJ of energy in total.

(Total for Question 16 is 4 marks)

17



(a) Reflect triangle **A** in the line $x = 1$

Label the new triangle **B**

(2)

(b) Rotate triangle **A** 180° about the origin.

Label the new triangle **C**.

(2)

(Total for Question 17 is 4 marks)

18 Here are some sequences.

Sequence **A**

1 3 4 7 11

Sequence **B**

1 3 7 13 21

Sequence **C**

1 3 9 27 81

Sequence **D**

1 3 5 7 9

Sequence **E**

1 4 9 16 25

Sequence **F**

1 3 6 4 10

Match each type of sequence in the table to the correct sequence above.

Type of Sequence	**Sequence Letter**
Arithmetic Sequence	
Geometric Sequence	
Fibonacci Sequence	

(Total for Question 18 is 3 marks)

19 (a) Write 7.2×10^5 as an ordinary number.

.....

(1)

(b) Write 0.0334 in standard form.

.....

(1)

(Total for Question 19 is 2 marks)

20 Show that $2\frac{1}{4} - 1\frac{5}{6} = \frac{5}{12}$

.....

(Total for Question 20 is 3 marks)

21 Eden is asked to express 330 as a product of its prime factors.

Her answer is $5 \times 6 \times 11$

Explain the mistake that Eden has made.

.....

.....

.....

(Total for Question 21 is 1 mark)

22 A shop sells a pair of shoes for £48 and a suit for £300.

The price of the pair of shoes is increased by 25%
The price of the suit is decreased by x%

The price of the pair of shoes is now one third of the price of the suit.

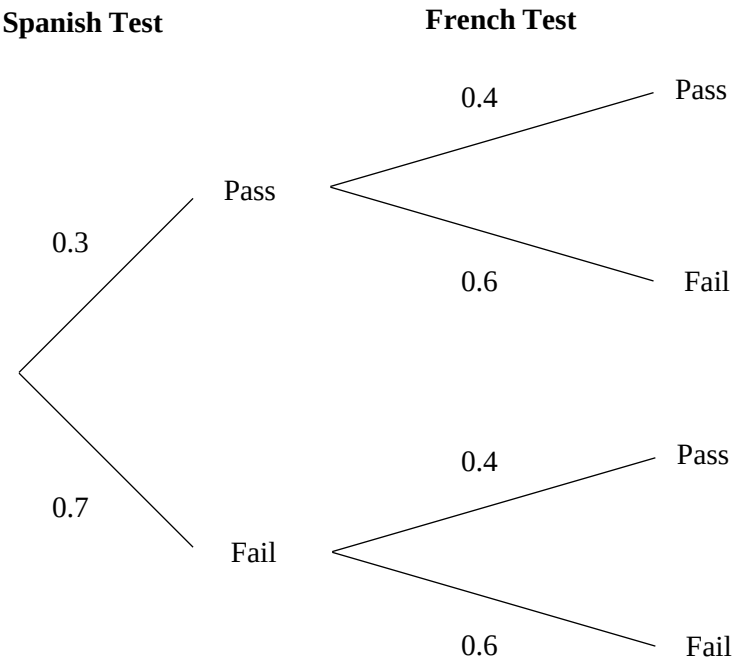
Work out the value of x.

$x =$ .....

(Total for Question 22 is 4 marks)

Turn over ▶

23 Reece takes a Spanish test and a French test.
The tree diagram below shows the probabilities of him passing or failing each of the tests.



Work out the probability that Reece passes exactly one of his tests.

.....

(Total for Question 23 is 3 marks)

24 Work out the value of $2^5 \times 3^{-2}$

Give your answer as a mixed number.

.....

(Total for Question 24 is 3 marks)

25 A bag contains 100 counters that are either red or green or blue.

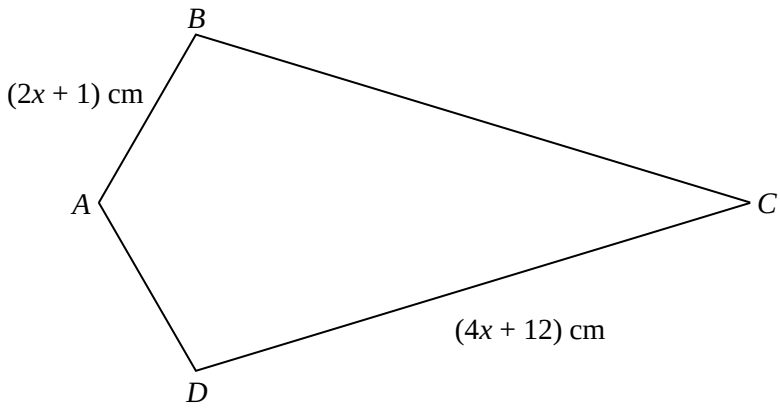
The ratio of the numbers red counters to the number green counters in the bag is 4 : 1
One quarter of the counters are blue.

The mean mass of the red counters is 6 grams
The mean mass of the green counters is 2 grams
The mean mass of the blue counters is 4 grams

Show clearly that the mean mass of all 100 counters is less than 5 grams.

(Total for Question 25 is 5 marks)

26



ABCD is a kite.
$BC = 3 \times AD$

Work out the perimeter of the kite.

..... cm

(Total for Question 26 is 5 marks)

27 Factorise $x^2 + 27x + 50$

.....

(Total for Question 27 is 2 marks)

28 Write down the exact value of cos 0°

.....

(Total for Question 28 is 1 mark)

29 Tom buys a laptop with a voucher for 20% off the normal price.
When using the voucher Tom pays £240 for the laptop.

Work out the normal price of the laptop.

£.....

(Total for Question 29 is 2 marks)

TOTAL FOR PAPER IS 80 MARKS