



Class Maths

Video Solutions



PRACTICE PAPER FOR



Edexcel Paper 1F (June 2024)



----- Disclaimer -----

This paper has been created based on the **most common** paper 1 topics from previous years. Due to the nature of some topics they are better suited to paper 1 as if you had a calculator, they would no longer be difficult to do. The paper should be excellent at helping students revise for exams, however, 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 for the reasons previously mentioned. Some topics may appear, some may not.

Ultimately 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 Write down the value of the 3 in the number 1439

.....
(Total for Question 1 is 1 mark)

2 Write 0.3 as a percentage.

..... %
(Total for Question 2 is 1 mark)

3 Write 6.48 correct to one decimal place.

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

4 Write down the value of 10^3

.....
(Total for Question 4 is 1 mark)

5 Change 5 metres into centimetres

..... cm
(Total for Question 5 is 1 mark)





6 (a) Simplify $c \times c \times c \times c$

.....
(1)

(b) Simplify $3m + 2m + 5$

.....
(1)

(Total for Question 6 is 2 marks)

7 Work out 20% of £60

£.....
(Total for Question 7 is 1 mark)

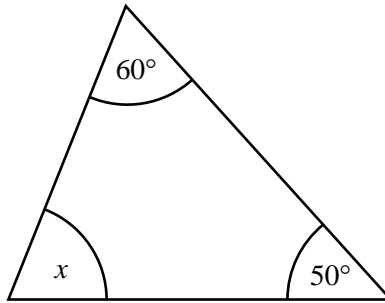
8 Write down an even factor of 12

.....
(Total for Question 8 is 1 mark)

9 Work out how many minutes are in $\frac{1}{5}$ of an hour.

..... minutes
(Total for Question 9 is 1 mark)

10 Here is a triangle.



(a) Work out the size of angle marked x .

.....
(2)

(b) Give a reason for your answer to part (a)

.....
.....
.....

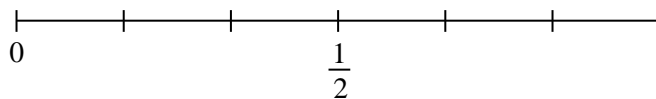
(1)

(Total for Question 10 is 3 marks)

11 An ordinary dice is thrown once.



On the probability scale below, mark with a cross (×) the probability that the dice lands on a number 5.



(Total for Question 11 is 1 mark)



12 1kg of cheese costs £6.00

Work out the cost of 300g of cheese.

£.....

(Total for Question 12 is 2 marks)

13 Work out $20 - 6 \times 2$

.....
(Total for Question 13 is 1 mark)

14 $y = -5$

Work out the value of $2y^2$

.....
(Total for Question 14 is 1 mark)

15 The table shows the masses of five different fruits.

1 Apple	155g
1 Banana	122g
1 Strawberry	25g
1 Lemon	58g
1 Grape	5g

(a) Work out the difference between the mass of 1 banana and the mass of 1 lemon.

..... g
(2)

(b) Work out the total mass of 11 strawberries.
Assume that all strawberries has the same mass.

..... g
(2)

(c) How many times greater is the mass of 1 apple than the mass of 1 grape.

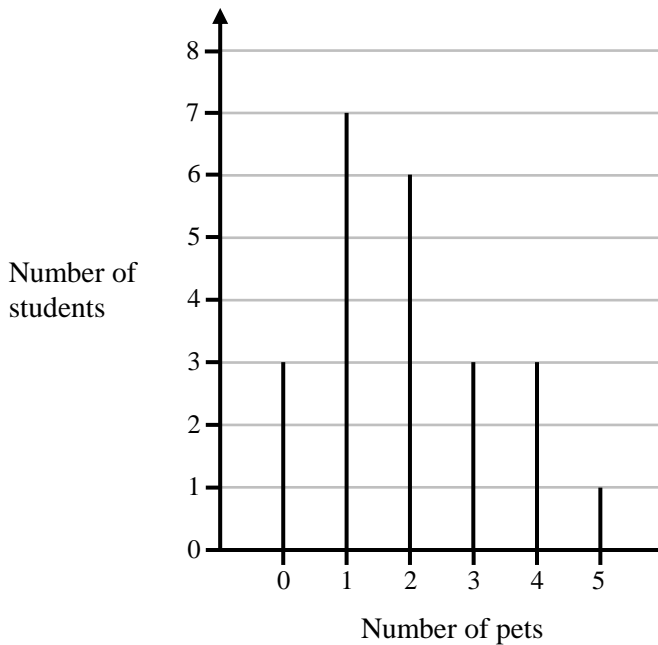
.....
(2)

(Total for Question 15 is 6 marks)



16 A class of students was asked by their teacher how many pets they had.

The chart shows the results.



(a) Work out how many students are represented in the chart.

.....
(2)

(b) Write down the mode of the number of pets.

.....
(1)

One student from the class was absent on the day when the teacher asked how many pets they had. This student has 2 pets.

If this student was included in the results, what affect would that have on your answer to part (b)?

.....
.....
.....

(1)

(Total for Question 16 is 4 marks)

17 Cedric says, “Students with glasses do better at their tests”.

To test his claim he asks everyone in his class if they wear glasses and if they passed their recent test.

The table below shows the results and includes Cedric himself.

	Wears Glasses	Does not wear glasses
Passed their test	6	9
Did not pass their test	4	6

(a) Show that the proportion of students who passed their test is the same for students who do wear glasses and those who do not wear glasses.

(2)

A student from the class is selected at random.

(b) Work out the probability that this student **does not** wear glasses and **did not** pass their test.

.....
(2)

(Total for Question 17 is 4 marks)



18 (a) Solve $12 + 5x = 2$

(b) Factorise $20 - 15b$

.....
(2)

.....
(1)

(Total for Question 18 is 3 marks)

19 All the supporters at a football match are adults or children.

The ratio of the number of adult supporters to the number of children supporters at the football match is 3 : 2

(a) What percentage of the supporters at the match are children?

..... %
(2)

At a different match $\frac{5}{6}$ of the supporters were adults and the rest were children.

(b) Write down the ratio of the number of adult supporters to the number of children supporters.

.....
(1)

(Total for Question 19 is 3 marks)

20 A bag contains only red counters and green counters.

The ratio of red counters to green counters in the bag is 2 : 7

There are 45 counters in the bag in total.

(a) Work out the number of red counters in the bag.

.....
(2)

Lewis adds more green counters to the bag.

The ratio of red counters to green counters in the bag is now 1 : 5

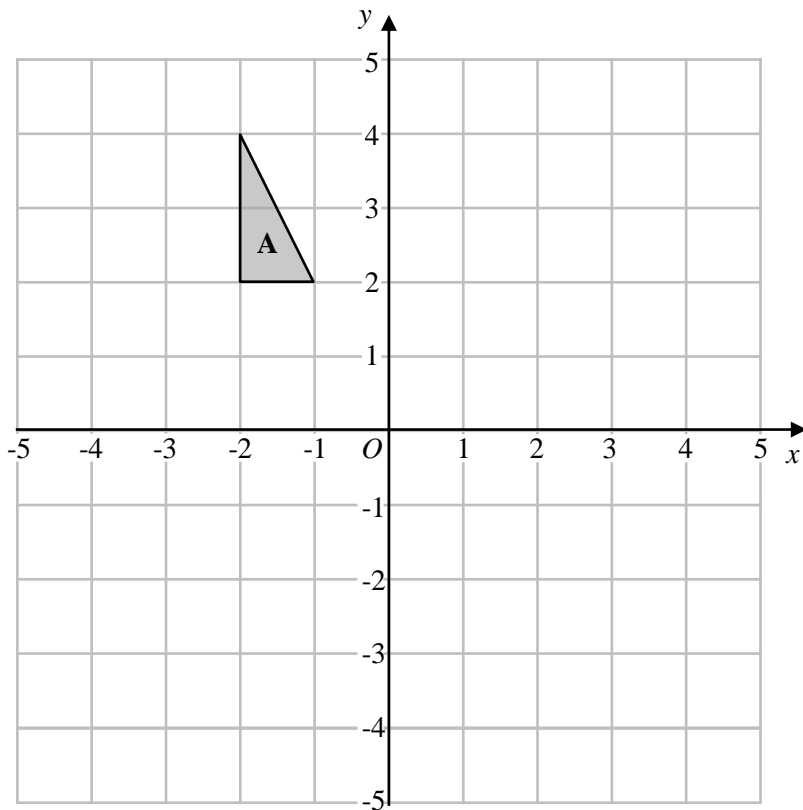
(b) Work out how many green counters Lewis added to the bag.

.....
(2)

(Total for Question 20 is 4 marks)



21



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

Label the new triangle **B** (2)

(b) Translate triangle **A** by the vector $\begin{pmatrix} 3 \\ 1 \end{pmatrix}$

Label the new triangle **C**. (1)

(Total for Question 21 is 3 marks)

22 A lorry is travelling along a road at a constant speed of 48 mph.

(a) How far will the lorry travel in $2\frac{1}{2}$ hours?

..... miles
(2)

A car is also on the road. The speed of the car is 5% more than the speed of the lorry.

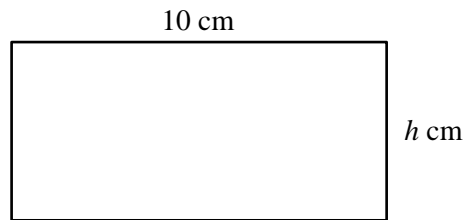
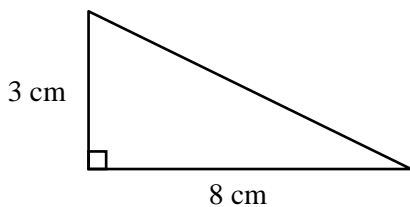
(b) Work out the speed of the car.

..... mph
(2)

(Total for Question 22 is 4 marks)



23 Here is a triangle and a rectangle.



Area of the triangle : Area of the rectangle = 1 : 3

Work out the value of h , the height of the rectangle.

$h = \dots\dots\dots$

(Total for Question 23 is 4 marks)

24 Work out $3\frac{1}{2} + 1\frac{2}{3}$

Give your answer as a mixed number in its simplest form.

.....
(Total for Question 24 is 3 marks)

25 (a) Simplify $\frac{20p^8q^5}{4p^2q^{-1}}$

.....
(2)

(b) Write 8×2^{10} as a power of 2

.....
(2)

(Total for Question 25 is 4 marks)



26 Work out an estimate for the value of $\frac{0.413 \times 0.309}{0.0051}$

.....
(Total for Question 26 is 3 marks)

27 (a) Write 0.00037 in standard form.

(b) Write 6.18×10^6 as an ordinary number.

.....
(1)

.....
(1)

(Total for Question 27 is 2 marks)

28 $6845 = 5 \times 37^2$

Express 68 450 as a product of its prime factors.

.....
(Total for Question 28 is 2 marks)

29 The table shows information about the amount of time 25 students spent on homework.

Time spent on homework, m (minutes)	Frequency
$0 \leq m < 10$	6
$10 \leq m < 20$	6
$20 \leq m < 30$	10
$30 \leq m < 40$	3

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

.....
(1)

(b) Work out an estimate for the mean amount of time spent on homework by the students.

..... minutes
(3)

(Total for Question 29 is 4 marks)

30 Here are the first 5 terms of a sequence.

3 9 17 27 39

(a) Work out the value of the next term in the sequence.

.....
(2)

The n th term of another sequence is given by the expression $35 - 6n$

(b) Work out the value of the first negative term of the sequence.

.....
(2)

(Total for Question 30 is 4 marks)

31 (a) Expand and simplify $9(x + 3) - 4(x + 1)$

(b) Factorise $x^2 + 5x - 14$

.....
(2)

.....
(2)

(Total for Question 31 is 4 marks)

32 Write down the exact value of $\cos 0^\circ$

.....
(Total for Question 32 is 1 mark)

TOTAL FOR PAPER IS 80 MARKS

