GCSE · Edexcel · Maths

1 hour | 39 questions

Exam Questions

Number Operations

Mathematical Operations / Order of Operations (BIDMAS/BODMAS) / Place Value / Negative Numbers / Money Calculations / Addition & Subtraction / Multiplication & Division / Related Calculations / Counting Principles

Easy (19 questions)	/32
Medium (11 questions)	/24
Hard (9 questions)	/22
Total Marks	**/78**

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Easy Questions

1 Given that $38 \times 41 = 1558$

Write down the value of 3.8×41

(1 mark)

2 Amir has two coins.
When a coin is thrown it can land on either 'heads' or 'tails'.
Amir throws one coin and then throws the second coin.

Write down all the different ways that the two coins could land.

(2 marks)

3 Simone buys:

one book costing £6.99,
one greetings card costing £1.49,
three identical pencils each costing 12p.

Simone pays with a £10 note.

Work out how much change Simone receives.

(3 marks)

4 (a) Edelgard tries to calculate $\frac{68+18}{9-5}$

She types into her calculator $68 + 18 \div 9 - 5$.

Explain why this does not give Edelgard the correct answer.

(1 mark)

(b) Work out the correct answer to $\frac{68+18}{9-5}$.

(1 mark)

5 Work out $48 \div 3 - 5 \times 2$

(1 mark)

6 Calculate $1.09 + \frac{7.85}{6.21-4.37}$

Give your answer correct to 1 decimal place.

(2 marks)

7 Calculate $(3+2) \times 6 - 8$

(1 mark)

8 Calculate $7 \times (2 \times 4) + 8 \times (2+6)$

(1 mark)

9 Write down the value of the digit 6 in the number 4.63.

(1 mark)

10 Write the number three hundred thousand and seventy two in figures.

(1 mark)

11 Write the following numbers in order of size.

Start with the smallest.

$$-5 \quad 3 \quad 0 \quad 1 \quad -2$$

(1 mark)

12 Shukra goes into a flower shop and buys two orchids and a chrysanthemum.

Each orchid costs £12.80.

The chrysanthemum costs £15.75.

Shukra pays with a £50 note.

She thinks she will get more than £8 in change.

Is Shukra correct?

You must show how you get your answer.

(3 marks)

13 Write down an integer that is less than -7.

(1 mark)

14 Write down an integer that is less than -7.

(1 mark)

15 (a) The table shows the distances to different cities from London.

City	Distance in miles
Bristol	118
Sheffield	168
Crewe	171
Oxford	60
Manchester	200

Write down the cities in order of their distance to London.

Start with the closest city.

(1 mark)

(b) Perry says, "Manchester is over three times as far as Oxford is from London".

Show that Perry is correct.

(1 mark)

16 (a) Here are four digits.

7 3 4 1

Write down the smallest possible four-digit number that can be made using each digit exactly once.

(1 mark)

(b) Write down the three digit number closest to 300 that can be made using three of the digits exactly once.

(1 mark)

17 Sutha is going to a maths event.

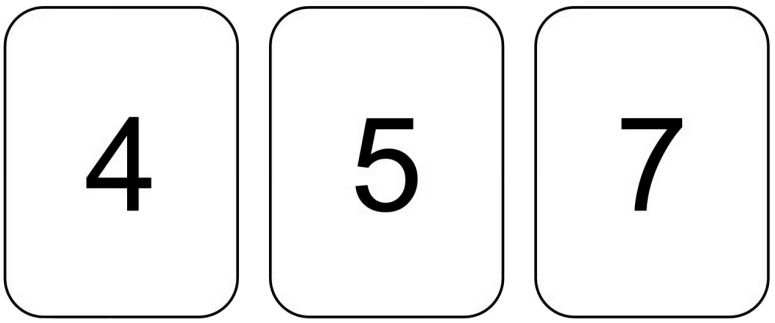
She can choose one seminar and one activity from the programme.

Seminars	**Activity**
Algebraic Methods (A)	Pirate Game (P)
Bearings in the Real World (B)	Treasure Hunt (T)
Calculus (C)	Maths Mosaic (M)

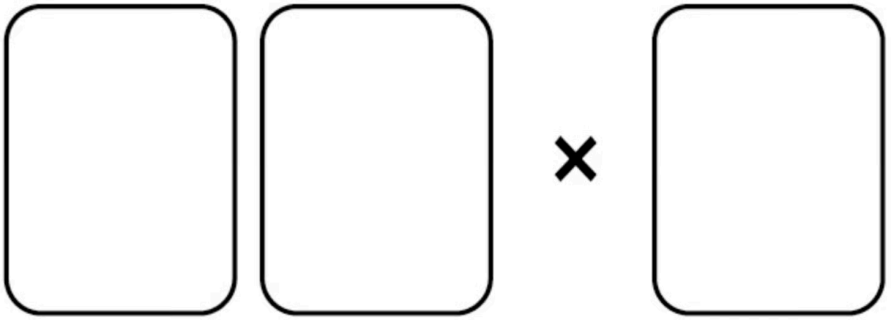
Write down all the possible combinations that Sutha can choose.

(2 marks)

18 (a) Here are three number cards.

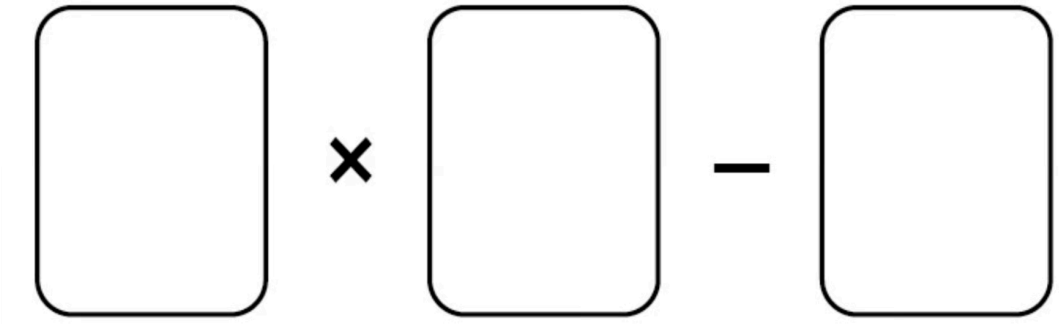


Use all three cards to make the answer to this calculation a multiple of 10.



(1 mark)

(b) Ffibi tries every possible combination of the three numbers in the spaces below.



She says, "Every possible combination gives a prime number as the answer."

Is Ffibi correct?

(2 marks)

19 Valentina wants to buy a bunk bed.

The bunk bed costs £284.

Valentina will pay a deposit of £50.

She will then pay the rest of the cost in 4 equal monthly payments.

How much is each monthly payment?

(2 marks)

Medium Questions

1 Given that $297 \times 45 = 13\,365$

Write down the value of 2.97×4.5

(1 mark)

2 There are 2 boys (Abel and Ben) and 3 girls (Annabeth, Barbara and Caitlin) in a group.

List the different ways that 1 boy and 1 girl can be chosen from the group.

(2 marks)

3 Caoimhe decides to spend her pocket money on

- one toy costing £2.35
- two packets of sweets costing 68p each
- and four identical marbles

Caoimhe pays with a £5 note and receives 25p in change.

How much does each marble cost?

(3 marks)

4 Insert one pair of brackets into this statement to make it correct.

$$7 \times 5 - 2 + 3 = 42$$

(1 mark)

5 (a) Put one pair of brackets into the calculation to make it correct.

$$8 + 6 - 2 \times 5 = 28$$

(1 mark)

(b) Put one pair of brackets into the calculation to make it correct.

$$8 + 6 - 2 \times 5 = 60$$

(1 mark)

6 Insert one pair of brackets to make this statement correct.

$$4 \times 6 - 2 + 1 = 17$$

(1 mark)

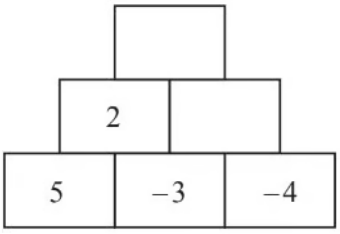
7 (a) Subtract 123 from 1 million.

(1 mark)

(b) Subtract 9 from 2.

(1 mark)

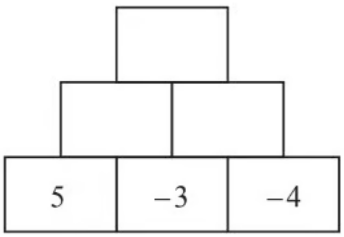
8 i) Two numbers are **added** together to give the number in the box immediately above.



Complete the diagram.

[2]

ii) Two numbers are **multiplied** together to give the number in the box immediately above.



Complete the diagram.

[3]

(5 marks)

9 Insert one pair of brackets to make this statement correct.

$$3 + 2 \times 12 - 4 = 19$$

(1 mark)

10 To print 40 pages, Amina needs:

- 200 grams of A4 paper
- 120 ml of ink

Amina wants to print 120 pages.

She has 300 ml of ink.

Does Amina have enough ink to print 120 pages?

You must show how you get your answer.

(3 marks)

11 Work out 8.3×5.7

(3 marks)

Hard Questions

1 Using the information that

$$3.9 \times 76 = 296.4$$

find the value of

i) 3.9×760

[1]

ii) 39×0.76

[1]

iii) $2964 \div 7.6$

[1]

(3 marks)

2 A restaurant has a special offer for a three course menu.

There are 2 options for the starter, 3 possible choices for the main and 2 different desserts.

A person wants to order one starter, one main course and one dessert for their meal. Write down the number of different combinations that the person could choose from the menu.

(2 marks)

3 (a) Nathaniel created a game for his school fair.
The price of one play on the game is 50p or you can have three plays for £1.20.

Roger has £5.90 available to spend on the game.

How many times can Roger play the game?

(3 marks)

(b) The prize for winning a play is 25p.

If Roger wins half of the games that he plays, how much money will he have left after playing?

(2 marks)

4 (a) Put one pair of brackets in each statement to make it correct.

$$16 \div 8 + 4 \times 2 = 1$$

(1 mark)

(b) $$16 \div 8 + 4 \times 2 = 12$$

(1 mark)

5 Put one pair of brackets into each calculation to make it correct.

i) $24 \div 6 + 2 \times 3 = 9$

[1]

ii) $24 \div 6 + 2 \times 3 = 2$

[1]

(2 marks)

6 (a) Insert one pair of brackets in the following to make the statement correct.

$$5 + 3 \times 10 - 1 = 32$$

(1 mark)

(b) Insert one pair of brackets in the following to make the statement correct.

$$3 \times 2 - 4 - 7 = 9$$

(1 mark)

7 Calculate $18 \div (10 - 4) - 11 \times 4 + 9 \times (6 + 1)$

(1 mark)

8 Jamie has incorrectly tried to calculate:

$$3 \times 2^3 + \sqrt{25} \times (3^2 \times 2 + 3)$$

His working is shown below.

$$\begin{aligned} & 3 \times 2^3 + \sqrt{25} \times (3^2 \times 2 + 3) \\ = & \, 3 \times 2^3 + \sqrt{25} \times (9 \times 5) \\ = & \, 3 \times 2^3 + \sqrt{25} \times (45) \\ = & \, 6^3 + 5 \times (45) \\ = & \, 216 + 225 \\ = & \, 441 \end{aligned}$$

Identify the two mistakes that have been made.

(2 marks)

9 Mano has an equal number of 5p coins and 10p coins.

The value of her 5p coins is £3.10.

Work out the total value of her 5p and 10p coins.

(3 marks)