

**Questions**

**Q1.**

Find the number that is exactly half way between  $-4$  and  $10$

.....

**(Total for question = 2 marks)**

**(Q06 1MA1/1F/M3, Specimen papers )**

**Q2.**

Mel drives a bus 39 weeks in a year.

She drives the bus an average of 298 miles each week.

(a) Work out an estimate for the total number of miles Mel drives the bus in one year.

..... miles

**(2)**

(b) Is your answer to part (a) an underestimate or an overestimate?  
You must give a reason for your answer.

.....

.....

**(1)**

**(Total for question = 3 marks)**

**(Q12 1MA1/1F/M3, Specimen papers )**

**Q3.**

A teacher asks George to think of a number.

She then says,

"Add 10 to your number and multiply the answer by 3"

George thinks of the number 5

He writes down

$$\underline{5 + 10 \times 3 = 35}$$

What should George have written down?

..... = .....

**(Total for question = 2 marks)**

**(Q10 1MA1/2F/M3, Specimen papers )**

**Q4.**

Here is a number machine.



(a) Find the output when the input is 6

.....  
(1)

(b) Find the output when the input is -4

.....  
(1)

(c) Find the input when the output is 79

.....  
(2)

**(Total for question = 4 marks)**

**(Q09 1MA1/3F/M3, Specimen papers )**

**Q5.**

Put a pair of brackets in each statement to make the statement true.

(i)  $2 \times 7^2 - 2 = 94$

(1)

(ii)  $16 \div 2 + 6 + 2 = 4$

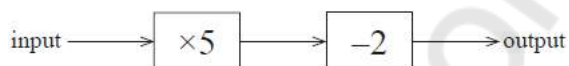
(1)

(Total for question = 2 marks)

(Q12 1MA1/3F/M3, Specimen papers )

**Q6.**

Here is a number machine.



(a) Work out the **output** when the input is 8

.....  
(1)

(b) Work out the **input** when the output is 28

.....  
(2)

(Total for question = 3 marks)

(Q10 1MA1/2F, Nov 2018)

**Q7.**

Work out  $10 \times (3 + 5)$

.....  
(Total for question = 1 mark)

(Q03 1MA1/1F, June 2019)

**Q8.**

Find the number that is exactly halfway between 7 and 15

.....  
(Total for question = 1 mark)

(Q05 1MA1/1F, June 2019)

**Q9.**

Work out  $74 \times 58$

.....  
(Total for question = 2 marks)

(Q11 1MA1/1F, June 2019)

**Q10.**

There are four types of counter in a bag.

The table shows the number of each type of counter in the bag.

Type of counter	red circle	green circle	red square	green square
Number of counters	16	26	11	7

There are more green counters than red counters.  
How many more?

.....  
**(Total for question = 2 marks)**

**(Q07 1MA1/3F, June 2019)**

**Q11.**

Find the value of  $\frac{5.27 + 3.5}{7.9 - 4.36}$

Give your answer as a decimal.  
Write down all the figures on your calculator display.

.....  
**(Total for question = 2 marks)**

**(Q14 1MA1/3F, June 2019)**

**Q12.**

Work out  $31.7 \times 100$

.....  
(Total for question = 1 mark)

(Q03 1MA1/1F, Nov 2019)

**Q13.**

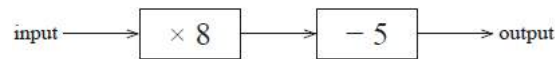
Work out  $23 \times 15$

.....  
(Total for question = 2 marks)

(Q14 1MA1/1F, Nov 2019)

**Q14.**

Here is a number machine.



(a) Work out the output when the input is 6

.....  
(1)

Here is a different number machine.



When the input is 17, the output is 10

(b) Complete the number machine.

(1)

**(Total for question = 2 marks)**

**(Q08 1MA1/2F, Nov 2019)**

**Q15.**

The diagram shows a number machine.



(a) Find the output when the input is 7

.....  
(1)

(b) Find the input when the output is 41

.....  
(2)

**(Total for question = 3 marks)**

**(Q12 1MA1/1F, Nov 2020)**

**Q16.**

A machine fills bags with sweets.

There are 4275 sweets.

There are 28 sweets in each full bag.

The machine fills as many bags as possible.

How many sweets are left?

.....

**(Total for question = 3 marks)**

**(Q13 1MA1/2F, Nov 2020)**

**Q17.**

£42 is shared equally between 3 friends.

How much does each friend get?

£ .....

**(Total for question = 2 marks)**

**(Q07 1MA1/1F, Nov 2021)**

**Q18.**

(a) Work out  $3.67 \times 4.2$

.....  
(3)

(b) Work out  $59.84 \div 1.6$

.....  
(3)

**(Total for question = 6 marks)**

**(Q20 1MA1/1F, Nov 2021)**

**Q19.**

(a) Work out  $3.67 \times 4.2$

.....  
(3)

(b) Work out  $59.84 \div 1.6$

.....  
(3)

**(Total for question = 6 marks)**

**(Q01 1MA1/1H, Nov 2021)**

**Q20.**

A baker has three bags of flour, **A**, **B** and **C**.

Bag **A** and bag **B** contain the same amount of flour.

Bag **C** contains 940 g of flour.

In the three bags, there is a total of 2500 g of flour.

Work out the amount of flour in bag **A**.

..... g

**(Total for question = 3 marks)**

**(Q07 1MA1/2F, Nov 2021)**

**Q21.**

Alec needs to work out the value of  $2 + 3 \times 4$

He writes

$$2 + 3 = 5 \text{ and } 5 \times 4 = 20, \text{ so } 2 + 3 \times 4 = 20$$

Alec is wrong.

Explain why.

.....

.....

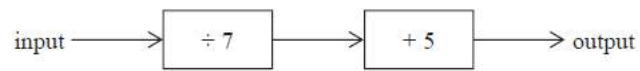
.....

**(Total for question = 1 mark)**

**(Q09 1MA1/2F, Nov 2021)**

**Q22.**

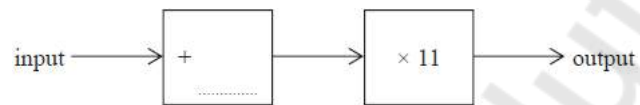
Here is a number machine.



(a) Work out the output when the input is 28

.....  
(1)

Here is a different number machine.  
The number machine is not complete.



When the input is 8, the output is 154

(b) Complete the number machine.

(2)

**(Total for question = 3 marks)**

**(Q12 1MA1/2F, June 2022)**

**Q23.**

Sinita wants to make 35 picture frames.  
She needs 4 nails for each frame.

Sinita has 3 boxes of nails.  
There are 48 nails in each box.

Has Sinita got enough nails to make all 35 frames?  
Show how you get your answer.

**(Total for question = 3 marks)**

**(Q11 1MA1/3F, June 2022)**

**Q24.**

Work out  $\frac{2.75 \times 14.6}{10 - 1.97}$

.....  
**(Total for question = 2 marks)**

**(Q15 1MA1/3F, June 2022)**

**Q25.**

Miklos is swimming lengths of a swimming pool.  
Each length of the pool is 25 m.

Miklos has swum 178 lengths of the pool.  
He wants to swim a total distance of 8050 m.

Calculate how many more lengths Miklos needs to swim.

.....  
**(Total for question = 3 marks)**

**(Q07 1MA1/3F, Nov 2023)**

**Q26.**

Work out  $120 - 89$

.....  
**(Total for question = 1 mark)**

**(Q02 1MA1/1F, Nov 2023)**

**Q27.**

Work out  $273 \times 54$

.....  
**(Total for question = 3 marks)**

**(Q14 1MA1/1F, June 2024)**

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**Q28.**

Anil has a job as a driver.

He is paid for each mile he drives.

He is also paid expenses.

One week Anil writes down the distance readings from his car.

Start of week:	4	7	2	4	1	miles
End of week:	4	7	8	7	9	miles

For this week, Anil is paid 47p for each mile he drives.

He is also paid expenses of £80

Work out the total amount that Anil is paid.

Give your answer in pounds.

£ .....

**(Total for question = 4 marks)**

**(Q09 1MA1/2F, June 2024)**

**Q29.**

Work out  $500 + 145$

.....

**(Total for question = 1 mark)**

**(Q05 1MA1/1F, Nov 2024)**

**Q30.**

Olly was asked to work out  $5 - 3 \times 4$

Olly wrote  $5 - 3 = 2$   
He then worked out  $2 \times 4$

Explain what is wrong with Olly's method.

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

**(Total for question = 1 mark)**

**(Q12 1MA1/1F, Nov 2024)**

**Q31.**

Jo uses beads to make bracelets.  
For each bracelet she uses 5 red beads and 7 white beads.

Jo has 52 red beads and 80 white beads.

Work out the greatest number of bracelets Jo can make.  
You must show all your working.

.....

**(Total for question = 3 marks)**

**(Q06 1MA1/2F, Nov 2024)**

**Q32.**

Maisie knows that she needs 3 kg of grass seed to make a rectangular lawn 5 m by 9 m.

Grass seed is sold in 2 kg boxes.

Maisie wants to make a rectangular lawn 10 m by 14 m.  
She has 5 boxes of grass seed.

(a) Has Maisie got enough grass seed to make a lawn 10 m by 14 m?

You must show all your working.

(4)

Maisie opens the 5 boxes of grass seed.

She finds that 4 of the boxes contain 2 kg of grass seed.  
The other box contains 1 kg of grass seed.

(b) Does this affect whether Maisie has enough grass seed to make her lawn?

Give a reason for your answer.

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

(1)

**(Total for question = 5 marks)**

**(Q04 1MA1/3H, Nov 2020)**

**Q33.**

Maisie knows that she needs 3 kg of grass seed to make a rectangular lawn 5 m by 9 m.

Grass seed is sold in 2 kg boxes.

Maisie wants to make a rectangular lawn 10 m by 14 m.  
She has 5 boxes of grass seed.

(a) Has Maisie got enough grass seed to make a lawn 10 m by 14 m?

You must show all your working.

(4)

Maisie opens the 5 boxes of grass seed.

She finds that 4 of the boxes contain 2 kg of grass seed.  
The other box contains 1 kg of grass seed.

(b) Does this affect whether Maisie has enough grass seed to make her lawn?

Give a reason for your answer.

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

(1)

**(Total for question = 5 marks)**

**(Q26 1MA1/3F, Nov 2020)**

**Q34.**

Jaroslav puts some items into his rucksack.

The table shows the weight of each item.

Item	Weight
2 apples	120 g each
2 bottles of water	524 g each
camera	474 g
map	86 g
mobile phone	214 g
umbrella	339 g

The rucksack has a weight of 275 g.

Work out the total weight of the rucksack and all the items.  
Give your answer in kilograms.

..... kg

**(Total for question = 3 marks)**

**(Q07 1MA1/2F/M3, Specimen papers )**

**Q35.**

Prasha has five blocks of wood.

The total weight of all five blocks of wood is 3 kilograms.  
4 of the blocks of wood each have a weight of 650 grams.

Work out the weight, in grams, of the other block of wood.

..... grams

**(Total for question = 3 marks)**

**(Q08 1MA1/1F, Nov 2019)**

**Q36.**

There are 14 rows of seats in a cinema.  
There are 15 seats in each row.

A film was shown in the cinema on Saturday.  
Each ticket for the film cost £6.50

The tickets that were sold cost a total of £1274

How many tickets were **not** sold?

.....

**(Total for question = 3 marks)**

**(Q06 1MA1/2F, Nov 2019)**

**Q37.**

A shop sells compost in 20 litre bags and in 40 litre bags.  
One day the shop had two special offers for the compost.



Which offer is the better value for money?  
You must show how you get your answer.

**(Total for question = 3 marks)**

**(Q14 1MA1/2F, Nov 2019)**

**Q38.**

Work out  $818.4 \div 1.2$

.....  
**(Total for question = 3 marks)**

**(Q18 1MA1/1F, Nov 2024)**

**Q39.**

Work out  $818.4 \div 1.2$

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.....  
**(Total for question = 3 marks)**

**(Q01 1MA1/1H, Nov 2024)**

**Q40.**

Jenny has 12 marbles.

$\frac{1}{4}$  of these 12 marbles are large.

The rest of these 12 marbles are small.

Each large marble has a weight of 70 grams.  
Each small marble has a weight of 50 grams.

Work out the total weight of the 12 marbles.

..... grams

**(Total for question = 4 marks)**

**(Q10 1MA1/1F, Nov 2020)**

**Q41.**

(a) Work out  $3 \times 5 + 7$

.....  
(1)

(b) Work out  $2^3$

.....  
(1)

(c) Write brackets ( ) in this statement to make it correct.

$$7 \times 2 + 3 = 35$$

(1)

**(Total for question = 3 marks)**

**(Q05 1MA1/1F, Nov 2018)**

**Q42.**

There are 3 litres of oil in a can.  
Jermaine uses 700 millilitres of the oil.

Work out the amount of oil left in the can.  
Give your answer in millilitres.

..... millilitres

**(Total for question = 3 marks)**

**(Q06 1MA1/1F, Nov 2023)**

**Q43.**

Here is the charge at a car park in Spain.

Car park 0.024 euros per minute
------------------------------------

Jon parked his car in this car park.

Jon drove into the car park at 10 45

When he drove out of the car park he had to pay 8.40 euros.

At what time did Jon drive out of the car park?

.....  
**(Total for question = 3 marks)**

**(Q10 1MA1/2F, Nov 2019)**

**Q44.**

Karim buys 200 tiles.

The tiles are sold in boxes.

There are 25 tiles in each box.

Each box of tiles costs £9.75

Work out the total cost of the boxes of tiles Karim buys.

£ .....

**(Total for question = 3 marks)**

**(Q08 1MA1/3F, Nov 2020)**

**Q45.**

Here are the costs of the same type of batteries in two shops.

Shop A Pack of 4 batteries £1.60	Shop B Pack of 6 batteries £2.70
--	--

Harry needs to buy at least 30 batteries.  
He assumes that he has to buy batteries in whole packs.  
Harry wants to buy the batteries as cheaply as possible from the same shop.

(a) Which shop should he buy the batteries from, shop **A** or shop **B**?

You must show all your working.

(4)

Harry's assumption is wrong.  
He can buy single batteries for 40p each in shop **A** and for 45p each in shop **B**.

(b) Does this affect which of these two shops Harry should buy the batteries from?

Give a reason for your answer.

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

(1)

**(Total for question = 5 marks)**

**(Q15 1MA1/3F, Nov 2020)**

**Q46.**

Deon needs 50 g of sugar to make 15 biscuits.

She also needs

three times as much flour as sugar

two times as much butter as sugar

Deon is going to make 60 biscuits.

(a) Work out the amount of flour she needs.

..... g

(3)

Deon has to buy all the butter she needs to make 60 biscuits.

She buys the butter in 250 g packs.

(b) How many packs of butter does Deon need to buy?

.....

(2)

**(Total for question = 5 marks)**

**(Q23 1MA1/1F, June 2019)**

**Q47.**

Deon needs 50 g of sugar to make 15 biscuits.

She also needs

three times as much flour as sugar

two times as much butter as sugar

Deon is going to make 60 biscuits.

(a) Work out the amount of flour she needs.

..... g

(3)

Deon has to buy all the butter she needs to make 60 biscuits.

She buys the butter in 250 g packs.

(b) How many packs of butter does Deon need to buy?

.....

(2)

**(Total for question = 5 marks)**

**(Q02 1MA1/1H, June 2019)**

**Q48.**

Jamil makes a drink by mixing

1 part of orange squash with 9 parts of water.

He uses 750 millilitres of orange squash.

Jamil is going to put the drink he has mixed into 1 litre bottles.

Work out the greatest number of 1 litre bottles that Jamil can completely fill.

.....  
**(Total for question = 3 marks)**

**(Q15 1MA1/1F, Nov 2020)**

**Q49.**

(a) Use your calculator to work out  $\frac{29^2 - 4.6}{\sqrt{35 - 1.9^2}}$

Write down all the figures on your calculator display.

.....  
**(2)**

(b) Write your answer to part (a) correct to 4 significant figures.

.....  
**(1)**

**(Total for question = 3 marks)**

**(Q02 1MA1/3H, Nov 2019)**

**Q50.**

A total of 700 tickets were on sale for a football match.

452 of the tickets were sold.

(a) How many tickets were **not** sold?

.....  
(2)

For a different football match,

297 tickets were sold for £9.50 each.

399 tickets were sold for £19.50 each.

(b) Work out an estimate for the total amount of money paid for these tickets.

You must show all your working.

£.....  
(3)

(c) Is your answer to part (b) an underestimate or an overestimate?

Give a reason for your answer.

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

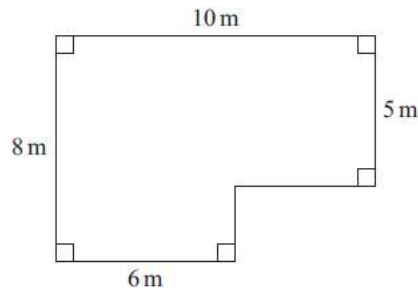
(1)

**(Total for question = 6 marks)**

**(Q11 1MA1/1F, June 2023)**

**Q51.**

The diagram shows a plan of a floor.



Petra is going to cover the floor with paint.

Petra has 3 tins of paint.

There are 2.5 litres of paint in each tin.

Petra thinks 1 litre of paint will cover  $10 \text{ m}^2$  of floor.

(a) Assuming Petra is correct, does she have enough paint to cover the floor?

You must show all your working.

(4)

Actually, 1 litre of paint will cover  $11 \text{ m}^2$  of floor.

(b) Does this affect your answer to part (a)?

You must give a reason for your answer.

.....

.....

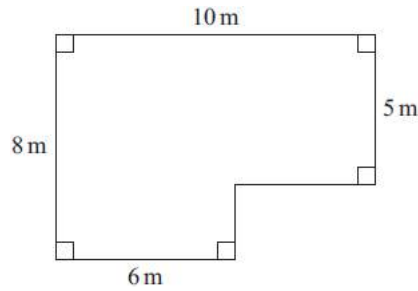
.....

(1)

**(Total for question = 5 marks)**

**Q52.**

The diagram shows a plan of a floor.



Petra is going to cover the floor with paint.

Petra has 3 tins of paint.

There are 2.5 litres of paint in each tin.

Petra thinks 1 litre of paint will cover  $10 \text{ m}^2$  of floor.

(a) Assuming Petra is correct, does she have enough paint to cover the floor?

You must show all your working.

(4)

Actually, 1 litre of paint will cover  $11 \text{ m}^2$  of floor.

(b) Does this affect your answer to part (a)?

You must give a reason for your answer.

.....

.....

.....

(1)

**(Total for question = 5 marks)**

**Q53.**

Mandy buys a 12 kilogram bag of dog food.

Mandy's dog has 3 meals a day.

She gives her dog 105 grams of dog food for each of these meals.

How many complete weeks will the bag of dog food last?

You must show all your working.

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.....  
**(Total for question = 5 marks)**

**(Q09 1MA1/3F, Nov 2023)**

**Q54.**

Work out  $8.46 \div 0.15$

.....  
**(Total for question = 3 marks)**

**(Q20 1MA1/1F, June 2023)**

**Q55.**

Work out  $8.46 \div 0.15$

.....  
**(Total for question = 3 marks)**

**(Q01 1MA1/1H, June 2023)**

**Q56.**

Write a number in each box to make the calculation correct.

(i)  $56.3 + \boxed{\phantom{000000}} = 100$

(1)

(ii)  $\frac{2}{7} + \boxed{\phantom{000000}} = 1$

(1)

**(Total for question = 2 marks)**

**(Q01 1MA1/3F, Nov 2018)**

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**Q57.**

The table shows the costs of sending a parcel by the Express service and by the Rapid service.

Type of service	Cost
Express	£15.25
Rapid	£35.38

Brendan has to send 12 parcels.

It will be cheaper to send the parcels by the Express service than by the Rapid service.

(a) How much cheaper?

£ .....  
(3)

Luke wants to send 21 parcels by the Express service.

He does the calculation  $20 \times £15 = £300$  to estimate the cost.

(b) Explain why Luke's calculation shows the actual cost will be more than £300

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

(1)

**(Total for question = 4 marks)**

**(Q11 1MA1/3F, June 2019)**

**Q58.**

Saira buys 24 bars of chocolate.

$\frac{2}{3}$  of the 24 bars are white chocolate.

The rest of the 24 bars are milk chocolate.

Each milk chocolate bar has a weight of 35 grams.

Work out the total weight of the milk chocolate bars that Saira buys.

..... grams

**(Total for question = 3 marks)**

**(Q12 1MA1/2F, June 2024)**

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**Q59.**

Curtis needs to buy some items for his sports club.

Here are the prices.

Item	Price
Footballs	£9.50 each
Hockey sticks	£30 for 2
Cricket bats	£23 each
Tennis balls	£5 for 4

Curtis needs to buy

- 5 footballs
- 6 hockey sticks
- 2 cricket bats
- 4 tennis balls.

Curtis has £200 to spend.

Show that Curtis can buy all the items he needs.

**(Total for question = 4 marks)**

**(Q08 1MA1/2F, Nov 2023)**

**Q60.**

3 kg of flour costs £4.05

5 kg of flour and 6 kg of sugar cost £11.85

Work out the cost of 2 kg of flour and 5 kg of sugar.

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£ .....

**(Total for question = 4 marks)**

**(Q14 1MA1/2F, Nov 2023)**

**Q61.**

Lucia is going on a skiing holiday.

The cost of ski hire is £26 per day.

The cost of a lift pass is £45 per day.

The cost of ski lessons is £23.50 per hour.

Lucia will pay for

ski hire for 5 days

a lift pass for 4 days

ski lessons for 8 hours.

Lucia has £500

Show that Lucia has enough money to pay for the total cost of ski hire, the lift pass and the ski lessons.

**(Total for question = 3 marks)**

**(Q09 1MA1/3F, June 2024)**

**Q62.**

Rehan is on holiday in the USA.

He has \$200 to spend on clothes.

Rehan buys

1 pair of trainers costing \$60

3 T-shirts costing \$25 each.

He also wants to buy a jacket costing \$80

(a) Has Rehan got enough money to buy the jacket?

You must show how you get your answer.

(3)

The trainers cost \$60

The exchange rate is  $\$1 = \pounds 0.749$

Rehan says,

"The trainers cost less than £40"

Rehan is wrong.

(b) Using a suitable approximation, show working to explain why.

(2)

**(Total for question = 5 marks)**

**(Q12 1MA1/1F, Nov 2019)**

**Q63.**

Carlo puts tins into small boxes and into large boxes.

He puts 6 tins into each small box.

He puts 20 tins into each large box.

Carlo puts a total of 3000 tins into the boxes so that

number of tins in small boxes : number of tins in large boxes = 2 : 3

Carlo says that less than 30% of the boxes filled with tins are large boxes.

Is Carlo correct?

You must show all your working.

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**(Total for question = 5 marks)**

**(Q03 1MA1/2H, Nov 2020)**

**Q64.**

Carlo puts tins into small boxes and into large boxes.

He puts 6 tins into each small box.

He puts 20 tins into each large box.

Carlo puts a total of 3000 tins into the boxes so that

number of tins in small boxes : number of tins in large boxes = 2 : 3

Carlo says that less than 30% of the boxes filled with tins are large boxes.

Is Carlo correct?

You must show all your working.

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**(Total for question = 5 marks)**

**(Q23 1MA1/2F, Nov 2020)**

**Q65.**

Scott wants to make orange juice.  
He is going to buy boxes of oranges.

There are 24 oranges in each box of oranges.
--

30 oranges make 2 litres of orange juice.
---

Scott needs to buy enough oranges to make 8 litres of orange juice.

(a) Work out the number of boxes of oranges that Scott needs to buy.

You must show all your working.

.....  
(3)

Scott also buys

1260 apples

280 bananas

(b) Write down the ratio of the number of apples that Scott buys to the number of bananas that he buys.

Give your ratio in its simplest form.

.....  
(2)

**(Total for question = 5 marks)**

**(Q17 1MA1/2F, Nov 2020)**

**Q66.**

(a) Work out  $-12 \div -4$

.....  
(1)

(b) Find the value of  $2^5$

.....  
(1)

(c) Write **one** pair of brackets in this calculation so that the answer is correct.

$$30 \div 3 + 2 - 4 = 2$$

(1)

**(Total for question = 3 marks)**

**(Q11 1MA1/1F, June 2024)**

**Q67.**

(a) Work out the value of  $\frac{\sqrt{35.2 + 1.7^3}}{4.6^2 - 8.91}$

Write down all the numbers on your calculator display.

.....  
(2)

(b) Write your answer to part (a) correct to 2 significant figures.

.....  
(1)

**(Total for question = 3 marks)**

**(Q19 1MA1/2F, June 2024)**

**Q68.**

There are 360 golf balls in a bucket.

There are

60 yellow golf balls

50 orange golf balls

40 pink golf balls

The rest of the golf balls are white.

What fraction of the golf balls are white?

Give your fraction in its simplest form.

.....

**(Total for question = 3 marks)**

**(Q15 1MA1/1F/M3, Specimen papers )**

**Q69.**

Mary, Bianka and Steve are picking apples.

Mary picks 264 apples.

$\frac{1}{6}$  of these apples are green.

Bianka picks 150 apples.  
28% of these apples are green.

Steve picks 340 apples.  
15% of these apples are green.

Who picks the most green apples?  
You must show all of your working.

**(Total for question = 4 marks)**

**(Q07 1MA1/3F/M3, Specimen papers )**

**Q70.**

Work out  $172 \times 34$

Mathsvault.io Solutions

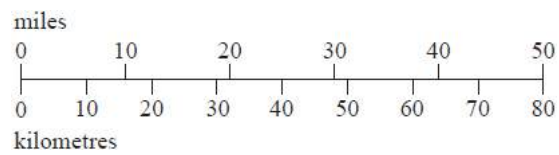
.....

**(Total for question = 3 marks)**

**(Q14 1MA1/1F/M3, Specimen papers )**

**Q71.**

This scale can be used to change between kilometres and miles.



(a) Use the scale to change 40 kilometres to miles.

..... miles  
(1)

Here is an approximate rule to change from kilometres to miles.

Divide the distance in kilometres by 10 and then multiply by 6

(b) Use this approximate rule to change 40 kilometres to miles.

..... miles  
(2)

(c) Compare your answer to part (b) with your answer to part (a).

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

(1)

**(Total for question = 4 marks)**

**(Q09 1MA1/2F, Nov 2020)**

**Q72.**

120 boxes cost £6

270 bags cost £10

How much cheaper?

Give your answer in pence correct to 1 decimal place.

..... p

**(Total for question = 4 marks)**

**(Q14 1MA1/3F, June 2023)**

**Q73.**

Work out  $£3.89 \times 5$

£ .....

**(Total for question = 2 marks)**

**(Q07 1MA1/1F/M3, Specimen papers )**

**Q74.**

Here are some prices in a café.

Prices	
Tea	£1.60
Coffee	£2.25
Milk	95p
Toast	£1.85
Bacon sandwich	£3.30
Egg sandwich	£2.95

Jack orders

- 2 teas
- 1 coffee
- 1 toast
- 1 bacon sandwich

Jack only has a £10 note.

Does he have enough money to pay the bill?  
You must show how you get your answer.

**(Total for question = 3 marks)**

**(Q09 1MA1/1F/M3, Specimen papers )**

**Q75.**

Claire buys a new car for £5700

She pays a deposit of 12%

She then pays the rest of the cost in 15 equal monthly payments.

How much is each monthly payment?

£ .....

**(Total for question = 3 marks)**

**(Q18 1MA1/3F/M3, Specimen papers )**

**Q76.**

Asha buys 180 cans of cola.

The cans are sold in packs.

There are 12 cans in each pack.

Each pack costs £3

(a) Work out the total cost of the cola Asha buys.

£ .....

(3)

Ethan buys a box of 24 cans of lemonade for £7

There are 330 ml of lemonade in each can.

(b) Work out the cost of 100 ml of lemonade.

Give your answer correct to the nearest penny.

..... p

(3)

**(Total for question = 6 marks)**

**(Q18 1MA1/2F, June 2023)**

**Q77.**

(a) Work out  $\frac{4.36 + 2.8^3}{6.8 - 5.42}$

Give your answer as a decimal.

Write down all the digits on your calculator display.

.....  
(2)

(b) Give your answer to part (a) correct to 1 decimal place.

.....  
(1)

**(Total for question = 3 marks)**

**(Q15 1MA1/3F/M3, Specimen papers )**

**Q78.**

(a) Use your calculator to work out  $\frac{29^2 - 4.6}{\sqrt{35 - 1.9^3}}$

Write down all the figures on your calculator display.

.....  
(2)

(b) Write your answer to part (a) correct to 4 significant figures.

.....  
(1)

**(Total for question = 3 marks)**

**(Q23 1MA1/3F, Nov 2019)**

**Q79.**

Daisy thinks of a whole number.  
She multiplies the number by 3  
Daisy's answer is 34

(a) Explain how you know Daisy's answer is wrong.

.....  
.....

(1)

Here is a number machine.



Abbie says that when the output is 36 the input is 60

Here is her working.

$$36 - 6 = 30$$
$$30 \times 2 = 60$$

Abbie is wrong.

(b) Explain what she has done wrong.

.....  
.....

(2)

**(Total for question = 3 marks)**

**(Q11 1MA1/2F/M1, Specimen papers )**