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Number Toolkit

Question Paper

Course	Edexcel IGCSE Maths
Section	1. Numbers & the Number System
Topic	Number Toolkit
Difficulty	Medium

Time allowed: 40

Score: /27

Percentage: /100

Question 1a

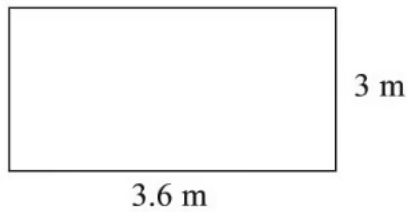The diagram shows a patio in the shape of a rectangle.

3 m

3.6 m

Diagram **NOT** accurately drawn

The patio is 3.6m long and 3 m wide.

Matthew is going to cover the patio with paving slabs.
Each paving slab is a square of side 60 cm.

Matthew buys 32 of the paving slabs.

Does Matthew buy enough paving slabs to cover the patio?
You must show all your working.

[3 marks]

Question 1b

The paving slabs cost £8.63 each.

(b) Work out the total cost of the 32 paving slabs.

[3 marks]

Question 2

Steve wants to put a hedge along one side of his garden.

He needs to buy 27 plants for the hedge.
Each plant costs £5.54.

Steve has £150 to spend on plants for the hedge.

Does Steve have enough money to buy all the plants he needs?

[4 marks]

Question 3

Train tickets
day return £6.45
monthly saver £98.50

Sue goes to work by train.

Sue worked for 18 days last month.
She bought a day return ticket each day she worked.

A monthly saver ticket is cheaper than 18 day return tickets.
How much cheaper?

[4 marks]

Question 4

Tom is going to buy 25 plants to make a hedge.

Here is information about the cost of buying the plants.

Kirsty's Plants	Hedge World
£2.39 each	Pack of 25 £52.50 plus VAT at 20%

Tom wants to buy the 25 plants as cheaply as possible.

Should Tom buy the plants from Kirsty's Plants or from Hedge World?
You must show all your working.

[5 marks]

Question 5

Write down the cube number that is greater than 50 but less than 100.

[1 mark]

Question 6

Write down a square number greater than 10.

[1 mark]

Question 7

The lowest temperature recorded at Scott Base in Antarctica is -57.0 °C.
The highest temperature recorded at Scott Base is 63.8 °C more than this.

What is the highest temperature recorded at Scott Base?

....°C

[1 mark]

Question 8

Write down a prime number between 50 and 60.

[1 mark]

Question 9

Calculate $-12 \div -2$.

[1 mark]

Question 10

Write down a prime number between 20 and 30.

[1 mark]

Question 11

<div align="center">22 17 25 41 39 4</div>

Work out the difference between the two prime numbers in the list above.

[2 marks]