

Name: _____

Foundation GCSE Maths – summer work on number

Date:

Time: 40 minutes

Total marks available: 38

Total marks achieved: _____

Questions**Q1.**

(a) Work out $2 \times (8 - 3)$

.....
(1)

(b) Work out $3^2 + 4 \times 5$

.....
(2)

(c) Find the value of 5^3

.....
(1)

(d) Find the square root of 16

.....
(1)

(Total for Question is 5 marks)

Q2.

(a) Write down the value of 7^2

.....
(1)

(b) Write down the value of $\sqrt{25}$

.....
(1)

(c) Write down the value of 2^3

.....
(1)

(Total for Question is 3 marks)

Q3.

- (a) (i) Work out $3.2^2 + \sqrt{7.5}$
Write down all the figures from your calculator display.

.....
(ii) Write your answer to (a)(i) correct to 2 significant figures.

.....
(2)

- (b) Work out the value of 10^5

.....
(1)

(Total for Question is 3 marks)

Q4.

- (a) Work out 3^4

.....
(1)

- (b) Write down the cube root of 64

.....
(1)

(Total for Question is 2 marks)

Q5.

Work out the value of $\sqrt{14.44 \times (7.3 - 2.45)^2}$

Write down all the figures on your calculator display.

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

Q6.

Here is a list of numbers.

5 15 30 50 60 90 100 125

From the numbers in the list, write down

(i) two different numbers that add up to an even number

.....
(ii) a multiple of 20

.....
(iii) a factor of 45

.....
(iv) a cube number

.....
(Total for Question is 4 marks)

Q7.

Sally has three tiles.

Each tile has a different number on it.



Sally puts the three tiles down to make a number.

Each number is made with all three tiles.

How many different numbers can Sally make?

(Total for question = 2 marks)

Q8.

Here are four cards.
There is a number on each card.

4

5

2

1

(a) Write down the largest 4-digit even number that can be made using each card only once.

.....
(2)

(b) Write down all the 2-digit numbers that can be made using these cards.

(2)
(Total for question is 4 marks)

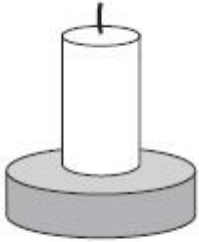
Q9.

Express 180 as a product of its prime factors.

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

Q10.

Caroline is making some table decorations.
Each decoration is made from a candle and a holder.



candle and
holder

Caroline buys some candles and some holders each in packs.

There are 30 candles in a pack of candles.

There are 18 holders in a pack of holders.

Caroline buys exactly the same number of candles and holders.

(i) How many packs of candles and how many packs of holders does Caroline buy?

..... packs of candles

..... packs of holders

Caroline uses all her candles and all her holders.

(ii) How many table decorations does Caroline make?

..... table decorations

(Total for question = 5 marks)

Q11.

Veena bought some food for a barbecue.
She is going to make some hot dogs.
She needs a bread roll and a sausage for each hot dog.

There are 40 bread rolls in a pack.
There are 24 sausages in a pack.

Veena bought exactly the same number of bread rolls and sausages.

(i) How many packs of bread rolls and packs of sausages did she buy?

..... packs of bread rolls

..... packs of sausages.

(ii) How many hot dogs can she make?

.....
(Total for Question is 5 marks)