


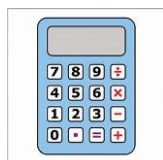


Countdown to your final Maths exam ... Foundation Tier only ... Part 5 (2020)

	Marks	Actual	  
Q1. Simplifying expressions	4		
Q2. Forming & solving equations from words	3		
Q3. Substitution	2		
Q4. Forming & solving equations from words	2		
Q5. Substitution / Writing expressions	4		
Q6. Forming & solving equations from words	3		
Q7. Forming expressions	3		
Q8. Forming & solving equations from words	3		
Q9. Powers & roots	3		
Q10. Powers & roots	2		
Q11. Order of operations / powers & roots	3		
Q12. Forming & solving equations from words	2		

34

NON-CALCULATOR UNLESS INDICATED



Questions

Q1 (a) Simplify $t + t + t$

(1)

(b) Simplify $5 \times e \times f$

(1)

(c) Simplify $3x + 8y + x - 2y$

(2)

Q2 Freya thinks of a number.
She multiplies the number by 2 and then subtracts 10
The result is 50

What number did Freya think of ?

(3)

Q3. $g = 9$ $h = 4$

Work out the value of $2g + 3h$

(2)

Q4. Liz's age is a square number.
Howard's age is a cube number.
Howard is 2 years older than Liz.

How old are Liz and Howard?

(2)

Q5. $x = -5$ $y = 2$

(a) Work out the value of $3x + 4y$

(2)

Janet buys p packets of sweets. There are 10 sweets in each packet.

(b) (i) Write down an expression, in terms of p , for the total number of sweets Janet buys.

Janet eats 7 of the sweets.

(ii) Write down an expression, in terms of p , for the number of sweets Janet has now.

(2)

Q6. Dan has some marbles.

Ellie has twice as many marbles as Dan.

Frank has 15 marbles.

Dan, Ellie and Frank have a total of 63 marbles.

How many marbles does Dan have?

(3)

Q7. Here are five straight rods.



All measurements are in centimetres.

The total length of the five rods is L cm.

Find a formula for L in terms of a .

Write your formula as simply as possible.

(3)

Q8. Stephanie thinks of a positive number.

She squares the number and adds 7

The result is 43

What number did Stephanie think of?

(3)

Q9. (a) Write down the value of $\sqrt{81}$

(1)

(b) Work out the value of $5^2 + 2^3$

(2)

Q10. (a) Write down the value of $\sqrt{49}$

(1)

(b) Write down the cube of 3

(1)

Q11. (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)

Q12. Liz's age is a square number.

Howard's age is a cube number.

Howard is 2 years older than Liz.

How old are Liz and Howard?

(2)