Non-calculator Qu	estions
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Work out 700 – 7 ²	((2)

2.

Work out $\sqrt{64} \times (12 - 7)$	

NCFE 3. Jessie needs to work out how much bonus she will pay each of her workers for the last month. She uses this formula to work out the bonus payment: B = bonus payment per worker (£)Where: T = total sales (£)N = number of workers Last month the total sales were £38 000 Jessie had 3 workers. Work out the bonus payment each worker will get. [3 marks]

Your answer:

£

Level 2 Maths BIDMAS Exam Questions

City & Guilds	
4.	
$(8 + 2 \times 6)^2 =$	
5.	(1 mark)
900 + 1500 ÷ 300 =	
6.	(1 mark)
$\frac{3^2}{3} - 28 =$	
7.	(1 mark)
5 ⁴ =	
	(1 mark)

8.	
Calculate $\frac{8-4^2}{8}$ =	
	(1 mark)
9.	
$\frac{\sqrt{15-6}}{3} =$	
	(1 mark)
Highfield	
10. Calculate	
$6^3 - 8 \div 2$	
Write the answer in the box below.	(1 mark)

4

Answer: _

11.		
Calculate:		
16 + 6 ² x 4		(1 mark)
Write the answer in the box below.		(1 mark)
	Answer:	
404		
AQA		
12.		
Work out $25 - 2 \times 3^2$		[2 marks]
Answer		

13.			
Circle the value of $4y^2$	when $y = -3$		[1 mark]
-144	-36	36	144
14.			
Work out $61 - 4 \times$	2 ³		[2 marks]
Answe	er		
15.			
Work out $2^3 \times (16 -$	4)		[2 marks]

Answer _____

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_	u	exc	.51	

Here is a formula.

$$m = \frac{2.67a}{4v}$$

Find the value of m when $a = 8$ and $y = 3.5$ Give your answer correct to 3 decimal places.	(3)

Chen reads about some footprints that were preserved in volcanic ash.

The foot length was 18.8 cm and the stride length (the distance between the footprints) was 164.5 cm

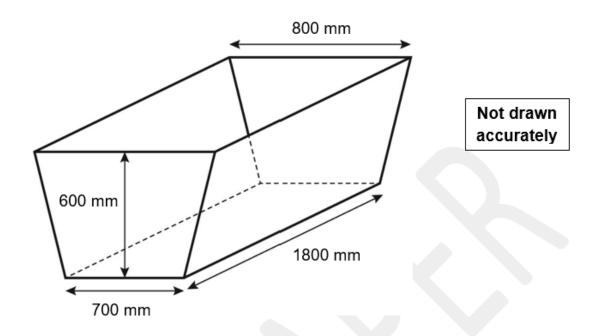
Archaeologists use the formula: $R = \frac{\text{stride length}}{4 \times \text{foot length}}$ Chen uses a calculator to calculate R for the footprints found in the volcanic ash.

She enters 164.5 ÷ 4 × 18.8 and gets the answer 773.15

Explain what Chen has done wrong.

The diagram shows Kamrul's bathtub.

The bathtub is a prism with a cross section in the shape of a trapezium.



Kamrul uses this formula to calculate the capacity of this prism:

$$C = 0.5h(a + b)L$$

Where:

C = capacity of the prism

a = width of the bottom edge of the trapezium

b = width of the top edge of the trapezium

h = height of the prism

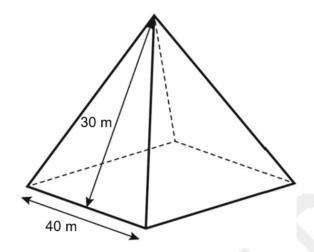
L = length of the prism

Level 2 Maths BIDMAS Exam Questions

Kamrul normally fills the bathtub with water to 78% of its capacity.	
He thinks that, if he fills the bathtub to 72% of its capacity, he will save more than 40 litres of water.	
Is Kamrul correct?	
Show how you decide.	[5 marks]
Your answer:	

The main stage is a square-based pyramid.

Pavel needs to work out the surface area of the four triangular faces of the pyramid.



Not drawn accurately

He uses this formula:

$$A=4\left(\frac{bh}{2}\right)$$

Where:

A = surface area of the 4 triangular faces of the pyramid (m²)

b = length of the base of the triangular face (m)

h = slant height of the triangular face (m)

Pavel thinks the total surface area of the 4 triangular faces of this pyramid is $1200\,\mathrm{m}^2$

Is Pavel correct?

Show how you decide.

[2 marks]

Your answer:	

5.		
	To work out his commission, Chris does th	is calculation:
	(194500 × 0.03) + 250 1.25	
	What answer should he get?	
		[2 marks]
	Your answer:	
Hig	ghfield	
6.		
	lculate the value of x where:	
	= 15 + 84 ² ÷ 3	(1 m. aula)
VV	rite the answer in the box below.	(1 mark)

Answer: ___

7.		
Calculate the value of n where:		
$n = 342 + 88^2 \div 4$		
Write the answer in the box below.		(1 mark
	Answer:	
8.		
Calculate the value of P		
$P = \frac{0.75 \times 0.095}{0.005}$		
Write the answer in the box below.		(1 mark
	Answer:	

9.				
Calculate (6	+ 3 × 2) ²			
Write the answer in the box below.	(1 mark)			
	Answer:			

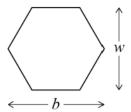
AQA

10.

Mo makes and sells jewellery.

He makes pendants in the shape of hexagons.

The hexagons are made of glass and have wire around the perimeter.



Not drawn accurately

Here is a formula for the perimeter, P, of the hexagon.

$$P = 6 \times \sqrt{\left(\frac{b}{4}\right)^2 + \left(\frac{w}{2}\right)^2}$$

b is the length of the pendantw is the width of the pendant

Mo makes pendants with length 6.4 cm and width 5.5 cm He buys the wire in reels with 4 metres of wire on each reel.

How many pendants can Mo make using one reel of wire? You **must** show your working.

[5 marks]

Answer

11.	
x = 5 and $y = -3.2$	
Work out the value of $x + y^2$	[2 marks]
Answer	