N29 Bidmas

OCR

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8 Milo does this calculation.

$$5 + 2 \times 3 = 21$$

Explain what Milo has done wrong.

.....[1]

8 Milo does this calculation.

$$5 + 2 \times 3 = 21$$

Explain what Milo has done wrong.

Needed to use Bidmas. Multiply comes before add.

10 (a) Put brackets into these calculations so that the answer is correct.

(i)
$$70 - 25 \div 9 \times 3 = 15$$

[1]

(ii)
$$6 \times 8 - 5 + 14 = 32$$

[1]

(b) Calculate.

$$\frac{46.3 + 89.4}{15 - 3.1^2}$$

Give your answer correct to 3 significant figures.

...... [2]

10 (a) Put brackets into these calculations so that the answer is correct.

(i)
$$(70-25) \div 9 \times 3 = 15$$
 [1]
 $45 \div 9 \times 3 = 15$

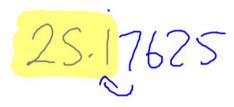
(ii)
$$6 \times (8-5) + 14 = 32$$

$$6 \times 3 + 14 = 32$$
[1]

(b) Calculate.

$$\frac{46.3 + 89.4}{15 - 3.1^2}$$

Give your answer correct to 3 significant figures.





8 (a) Evaluate.

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(i) $\sqrt{121}$

(a)(i)[1]

(ii) 4⁻²

(ii)[1]

(b) Work out.

$$(9-3\times2)^2$$

(b)[2

(c) Fill in the power.

5 = 125

[1]

(i)
$$\sqrt{121}$$
 _ \times _ = [2]

- (a)(i)

(c) Fill in the power.

$$5 = 125$$
 $5 \times 5 \times 5 = 125$ [1

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(i)
$$1+4 \div 2$$

(ii)
$$2+5\times(8-4)$$

(ii)[1]

(a)(i)[1]

(i)
$$1 + 4 \div 2$$

 $1 + 2$

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 $N(8 (i) 10^3$

(a)(i)[2]

(ii) $9(8-3\times2)$ N29

(ii)[2]

N(8 (i) 103

(ii)
$$9(8-3\times2)$$
 $9(8-3\times2)$
 $9(8-6)$
 $9(8-6)$

(b) Put brackets into this sum so that the answer is correct.

$$1 + 2 \times 3 + 5 = 17$$

[1]

(b) Put brackets into this sum so that the answer is correct.

$$N^{29} = 1 + 2 \times (3 + 5) = 17$$

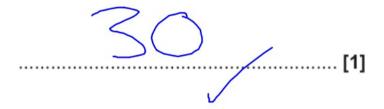
$$1 + 2 \times 8$$

$$1 + 16 = 17$$

[1]

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2 Work out.	
$5\times(2+4)$	
N29	
	[1]

N29



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She then says,

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

George thinks of the number 5

He writes down

$$5+10\times3=35$$

What should George have written down?

=

(Total for Question 10 is 2 marks)

10 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

$$5 + 10 \times 3 = 35$$

What should George have written down?

$$(5+10)\times3 = 45$$

(Total for Question 10 is 2 marks)

12 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 12 is 2 marks)

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

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

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

16:8+2

(1)

(1)

(Total for Question 12 is 2 marks)

$$2+2=4$$

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3 Work out $3 + 20 \div 5$

N29

(Total for Question 3 is 1 mark)

3 Work out
$$3 + 20 \div 5$$

N29

3 + 4

7

(Total for Question 3 is 1 mark)

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2 Work out $2 + 7 \times 10$

.....

(Total for Question 2 is 1 mark)

2 Work out
$$2+7\times10$$
 $2+70$

72

(Total for Question 2 is 1 mark)

BIDMAS

				Video created by W Neill
15	Jenny is asked to find the value of	$12-2\times 4$		
N29	Here is her working.			
		$12 - 2 \times 4 = 1$	$0 \times 4 = 40$	
	Jenny's answer is wrong.			
	(a) Explain what Jenny has done wi	rong.		
				(1)

- 15 Jenny is asked to find the value of $12 - 2 \times 4$
- N29 Here is her working.

$$12 - 2 \times 4 = 10 \times 4 = 40$$

Jenny's answer is wrong.

(a) Explain what Jenny has done wrong.

She did not use Bidmas should have multiplied first

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

N29

(1)

(b) Work out 2³

N19

(1)

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

N29

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

(1)

(Total for Question 5 is 3 marks)

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

N29 15+7

(b) Work out 2³

N19

 $2 \times 2 \times 2$

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

N29

$$7 \times \left(2 + 3\right) = 35$$

$$7x5 = 35$$

(1)

(Total for Question 5 is 3 marks)

AQA

13

2 + 0 + 1 + 7 = 10

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N29

Make the following calculations correct.

Use only the symbols +, -, \times , \div and ()

[3 marks]

2

0

1

7 = -4

2

0

1

r = 0

2

0

1

 $7 = 2^4$

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13

N29

2 + 0 + 1 + 7 = 10

Make the following calculations correct.

Use only the symbols +, -, \times , \div and ()

[3 marks]

 $2 \times 0 \times 1 \times 7 = 0$

 $\begin{pmatrix} 2 & + & 0 \end{pmatrix} \times \begin{pmatrix} 1 & + & 7 \end{pmatrix} = 2^4 \qquad \begin{array}{c} 2 \times 2 \times 2 \times 2 \times 2 \\ = 16 \qquad = 16 \end{array}$

			Video created by W Neill
20 N19	Work out	$\sqrt{121} - (13 - 5 \times 2)^2$	[3 marks]
N29			
			Answer

Work out $\sqrt{121} - (13 - 5 \times 2)^2$ 20

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$$\sqrt{121} - (13 - 5 \times 2)^2$$

[3 marks]

N19 N29

Answer

13 Work out $4+3\times5-1$ Circle your answer. [1 mark]

16 18 28 34

13 Work out $4+3\times5-1$ Circle your answer. [1 mark]

16 18 28 34

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[1 mark]

3

 $16a^2 \div a + 3a \times 2$ Simplify Circle your answer.

N29

A3 A4 **22***a*

8*a*

38*a*

2a

3ax? = 6a