

# N29 Bidmas

OCR

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 BODMAS. Multiply comes before  
add.

$$5 + \underline{2 \times 3}$$

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$$5 + 6 = 11 \checkmark$$

[1]

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.

(b) ..... [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)  $6 \times (8 - 5) + 14 = 32$  [1]

$6 \times 3 + 14 = 32$  ✓

(b) Calculate.

$$\frac{46.3 + 89.4}{15 - 3.1^2}$$
 ✓

Give your answer correct to 3 significant figures.

25.17625

(b) ..... 25.2 [2]

8 (a) Evaluate.

(i)  $\sqrt{121}$

(a)(i) ..... [1]

(ii)  $4^{-2}$

(ii) ..... [1]

(b) Work out.

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

(b) ..... [2]

(c) Fill in the power.

$5^{\boxed{\phantom{000}}} = 125$

[1]

8 (a) Evaluate.

Video created by W Neill

(i)  $\sqrt{121}$         $\times$     = 121

(a)(i) ..... 11 ..... [1]

(ii)  $4^{-2}$      $\frac{1}{4^2} =$

(ii) .....  $\frac{1}{16}$  ..... [1]

(b) Work out.

B ✓  $(9 - 3 \times 2)^2$

D ✓  
M ✓  
A  
S

$(9 - 6)^2$   
 $3^2$

(b) ..... 9 ..... [2]

(c) Fill in the power.

$5^{\boxed{3}} = 125$

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

7 (a) Work out.

(i)  $1 + 4 \div 2$

(a)(i) ..... [1]

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

(ii) ..... [1]

7 (a) Work out.

(i)  $1 + 4 \div 2$

$1 + 2$

(a)(i) ..... 3 ..... [1]

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

$2 + 5 \times 4$

$2 + 20$

(ii) ..... 22 ..... [1]

B  
I  
D  
M  
A  
S

3 (a) Work out.

$118$  (i)  $10^3$

(ii)  $9(8 - 3 \times 2)$

$129$

(a)(i) ..... [2]

(ii) ..... [2]

3 (a) Work out.

N18 (i)  $10^3$

$$10 \times 10 \times 10 =$$

(a)(i) ..... 1000 [2]

(ii)  $9(8 - 3 \times 2)$

N29

$$9(8 - 6)$$

$$9(2)$$

mult

(ii) ..... 18 [2]

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

N29  $1 + 2 \times 3 + 5 = 17$

**[1]**

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

N29  $1 + 2 \times (3 + 5) = 17$  ✓

[1]

$1 + 2 \times 8$

$1 + 16 = 17$  ✓

2 Work out.

N29

$$5 \times (2 + 4)$$

..... [1]

2 Work out.

N29

$$5 \times (2 + 4)$$

$$5 \times (6)$$

$$5 \times 6$$

$$\begin{array}{r} 30 \\ \hline \end{array} \quad [1]$$

Edexcel

**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

$$\frac{5 + 10 \times 3 = 35}{\dots\dots\dots \quad \dots\dots}$$

What should George have written down?

$$\dots\dots\dots = \dots\dots\dots$$

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**(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?

$$(5 + 10) \times 3 = 45$$

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

(1)

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

(1)

$16 \div 8 + 2$

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(Total for Question 12 is 2 marks)

$2 + 2 = 4$

3 Work out  $3 + 20 \div 5$

N29

.....  
**(Total for Question 3 is 1 mark)**

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3 Work out  $3 + \underline{20 \div 5}$

N29

$$3 + 4$$

7

(Total for Question 3 is 1 mark)

2 Work out  $2 + 7 \times 10$

.....  
**(Total for Question 2 is 1 mark)**

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2 Work out  $2 + 7 \times 10$

$$\begin{array}{r} 2 + 70 \\ \hline \end{array}$$

72

(Total for Question 2 is 1 mark)

B  
I  
D  
M ✓  
A ✓  
S

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.

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(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 BODMAS  
should have multiplied first

(1)

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

N29

.....  
(1)

(b) Work out  $2^3$

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)**

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

N29  $15 + 7$

$$\begin{array}{r} 22 \\ \hline \end{array} \quad (1)$$

(b) Work out  $2^3$

N19  $2 \times 2 \times 2$

$$\begin{array}{r} 8 \\ \hline \end{array} \quad (1)$$

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

N29

$$7 \times (2 + 3) = 35 \quad \checkmark$$

$$7 \times 5 = 35$$

(1)

**(Total for Question 5 is 3 marks)**

AQA

13

$$2 + 0 + 1 + 7 = 10$$

N29

Make the following calculations correct.

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

[3 marks]

$$2 \quad 0 \quad 1 \quad 7 = -4$$

$$2 \quad 0 \quad 1 \quad 7 = 0$$

$$2 \quad 0 \quad 1 \quad 7 = 2^4$$



20

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

[3 marks]

N19

N29

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Answer \_\_\_\_\_

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

[3 marks]

N19  
N29

$$\sqrt{121} = 11$$

$$11 - (3)^2$$

$$11 - 9$$

$$13 - 5 \times 2$$

$$13 - 10$$

$$= 3$$

Answer

2

**13** Work out  $4 + 3 \times 5 - 1$

Circle your answer.

**N29**

**[1 mark]**

16

18

28

34

**13** Work out  $4 + 3 \times 5 - 1$

Circle your answer.

**N29**

**[1 mark]**

16

18

28

34

3 Simplify  $16a^2 \div a + 3a \times 2$

Circle your answer.

N29

A3

A4

$22a$

$8a$

$38a$

$2a$

[1 mark]

3 Simplify  $16a^2 \div a + 3a \times 2$

Circle your answer.

N29

A3

A4

[1 mark]

22a

8a

38a

2a

$$16a^2 \div a$$

$$\frac{16a^2}{a} = 16a$$

$$3a \times 2 = 6a$$

$$16a + 6a$$