GCSE FOUNDATION · REVISION MAT 2

Order of operations and inverses

1 Work out

(a) $18 - 12 \div 3$

(b) $(5 + 1)^2 \div 4$

2 Put brackets into this calculation to make it correct.

$12 - 6 \div 3 = 2$

3 Chloe says,

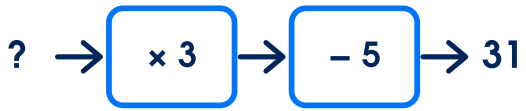
"$5 + 4 \times 3 = 27$"

Explain the mistake Chloe has made.

4 Show that

$50 - 3 \times 2^3 = 26$

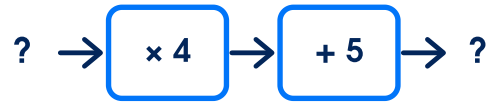
5 Here is a number machine.



The output is 31.

Work out the input.

6 Here is a number machine.



Amy puts a number in. Her output is 33.

Ben puts in a number that is 3 more than Amy's number.

Work out Ben's output.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Order of operations and inverses

1 (a) **14**

(b) **9**

2 **(12 – 6) ÷ 3 = 2**

3 Chloe did the operations in the wrong order. × and ÷ come before + and –.

5 + 4 × 3 = **17**

4 50 – 3 × 8 = 50 – 24

= 26 ✓

5 Work backwards using inverse operations:

31 + 5 = 36

36 ÷ 3 = 12

Input = **12**

6 Amy's input: (33 – 5) ÷ 4 = 7

Ben's input: 10

Ben's output: 10 × 4 + 5 = **45**