GCSE HIGHER · REVISION MAT 2

Order of operations and inverse operations

1 Work out

$20 - 12 \div 4$

2 Work out

$2 \times 3^2 - 4 \times 2$

3 Ali says $10 - 2 \times 3 = 24$.

Explain his mistake.

4 A number is divided by 4, then 9 is added.

The answer is 16.

What was the number?

5 Use an inverse operation to check that

$14.4 \div 1.2 = 12$

6 Add brackets to make this true.

$2 + 3 \times 4 + 5 = 45$

7 Show that

$(-3)^2 + 4 \times (-2) = 1$

8 A number is multiplied by 3, then 2 is added, then the result is squared.

The answer is 121.

Find the positive starting number.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Order of operations and inverse operations

1 20 – 3

17

2 18 – 8

10

3 Multiply before subtracting.

10 – 6 = 4

4 16 – 9 = 7

7 × 4 = 28

5 12 × 1.2 = 14.4 ✓

Correct

6 **(2 + 3) × (4 + 5) = 45**

7 9 – 8

= 1

8 $\sqrt{121}$ = 11

11 – 2 = 9

9 ÷ 3 = 3