GCSE HIGHER · REVISION MAT 4

Order of operations and inverse operations

1 Work out

$7 \times 2 + 3 \times 4$

2 Work out

$(15 - 3^2) \times 4$

3 Add brackets to make this true.

$3 \times 5 - 2 + 4 = 13$

4 A number is multiplied by 5, then 8 is subtracted.

The answer is 37.

What was the number?

5 Show that 7.2×0.5 gives the same answer as $7.2 \div 2$.

6 Find the missing positive number.

$(\square - 2)^2 \div 3 = 12$

7 Show that

$$\frac{5^2 - 3^2}{2^3 - 4} = 4$$

8 Subtract 1 from a number, square it, add 3, then halve.

The answer is 14.

Find the possible numbers.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Order of operations and inverse operations

1 $14 + 12$

26

2 6×4

24

3 $3 \times (5 - 2) + 4 = 13$

4 $37 + 8 = 45$

$45 \div 5 = 9$

5 $7.2 \times 0.5 = 3.6$

$7.2 \div 2 = 3.6$

6 $(\square - 2)^2 = 36$

$\square - 2 = 6$

$\square = 8$

7 $\frac{25 - 9}{8 - 4} = \frac{16}{4}$

$= 4$

8 $(x - 1)^2 + 3 = 28$

$(x - 1)^2 = 25$

$x = 6$ or $x = -4$

Mr&Mrs MATHS