GCSE HIGHER · REVISION MAT 5

Order of operations and inverse operations

1 Work out

$18 \div 3 + 2 \times 5$

2 Work out

$4 + 2 \times (7 - 3)^2$

3 Kim says $12 \div 4 \div 2 = 6$.

Explain her mistake.

4 Car hire costs £30 plus £25 per day.

The bill is £205.

For how many days was the car hired?

5 Show that

$5 - 3 \times (2 - 4) = 11$

6 Use each of 2, 5, 7 and 10 once, with any operations and brackets, to make 1.

7 Show that

$$\frac{(-4)^2 - 1}{(-3)^2 - 4} = 3$$

8 A number is squared, 5 is subtracted, then the result is divided by 4.

The answer is 11.

Find the possible numbers.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Order of operations and inverse operations

1 6 + 10

16

2 4 + 2 × 16

36

3 Divide from left to right.

3 ÷ 2 = 1.5

4 205 – 30 = 175

175 ÷ 25 = 7 days

5 5 – 3 × (–2) = 5 + 6

= 11

6 **e.g. (7 + 5 – 10) ÷ 2 = 1**

7 $\frac{16 - 1}{9 - 4} = \frac{15}{5}$

= 3

8 $x^2 - 5 = 44$

$x^2 = 49$

7 or –7

Mr&Mrs MATHS