GCSE FOUNDATION · REVISION MAT 5

Algebraic notation

1 Write these in a simpler way.

(a) $p + p + p + p$

(b) $3 \times p \times q$

(c) $q \times q \times q$

2 Write down whether each one is an **expression**, an **equation**, a **formula** or an **identity**.

(a) $9 - 2x = 3$

(b) $ab + c$

(c) $A = \frac{1}{2}bh$

(d) $x + x + x \equiv 3x$

3 Ed says,

"$2y$ and $y + 2$ mean the same thing."

Explain why Ed is wrong.

4 Which of these are the same as $18m$?

$2m \times 9$, $18 + m$, $9m + 9m$, $m \times 18$, $10m + 8m$

Explain how you decide.

5 A rectangle has length $3c$ and width $4d$.

(a) Write an expression for its perimeter.

(b) Write an expression for its area.

(c) Work out the area when $c = 2$ and $d = 1$.

6 The three cards add up to

$7y + 9$. $2y + 4$? $6y$

Work out the expression on the missing card.

Mr&Mrs MATHS

1 (a) $4p$

(b) **$3pq$**

(c) q^3

2 (a) **equation**

(b) **expression**

(c) **formula**

(d) **identity**

3 $2y$ and $y + 2$ are different.

Try $y = 4$: $2 \times 4 = 8$, but $4 + 2 = 6$

Not the same

ANSWERS · REVISION MAT 5

Algebraic notation

4 **$2m \times 9$, $9m + 9m$, $m \times 18$, $10m + 8m$**

Each simplifies to $18m$.

5 (a) $6c + 8d$

(b) **$12cd$**

(c) **24**

6 $7y + 9 - (2y + 4) - (6y)$

$= -y + 5$

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