Mathematics Mastery

1.	What does $7a$ represent? A $7 + a$ B $7 - a$ C $7 \times a$ D $7 \div a$	/1
2.	Which simplified expression represents this problem? "I think of a number, multiply it by 2. I then add 3" A $n \times 2 + 3$ B $2n + 3$ C $5 \times 2 + 3$ D $3n + 2$	/1
3.	Simplify the expressions a) $2g \times 4d$ 1 mark for correct answer of $8dg$ b) $3q^3 \times 2q^4$ 1 mark for $6q^{12}$ or $5q^7$ 1 mark for correct answer of $6q^7$	/3
4.	Find the value of the expressions when $x = 2$ and $y = 3$ a) $5x - y$ 1 mark for 5×2 1 mark for correct answer of 7 b) $x^3 - y$ 1 mark for $x^3 = 8$ or $8 \times 8 \times 8$ 1 mark for correct answer of 5	/4
5.	Simplify $3r + 5s + 2r - 2s$ 1 mark for either $+5r$ or $+3s$ 1 mark for correct answer $5r + 3s$	/2

6.	Expand $2(y-4)$ 1 mark for $2y-8$	/1
7.	Expand and simplify $5(3z+2)+3(4-z)$ $\times$ | $3z$ | $+2$ 5 | $15z$ | $+10$ $\times$ | 4 | $-z$ 3 | 12 | $-3z$ 1 mark for $15z+10$ or $12-3z$ 1 mark for $15z+10+12-3z$ 1 mark for $12z+22$	/3
8.	Factorise $5x-15$ 1 mark for correct answer of $5(x-3)$	/1
	Total	16

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