

AQA - Algebra – GCSE Mathematics Paper 11. [June/2021/Paper_1F/No.2](#)Circle the expression that is equal to $x + x + x - x + x$ **[1 mark]** x $2x$ $3x$ $4x$

2. June/2021/Paper_1F/No.22

(a) Lucy wants to simplify $6a - (7b - 2a)$ She writes $4a - 7b$

Is she correct?

Tick a box.

Yes

No

Give a reason for your answer.

[1 mark]

(b) Lucy also wants to simplify $3p^2 \times 5p^7$

She says,

"Add 3 and 5, then add 2 and 7"

Her answer is $8p^9$

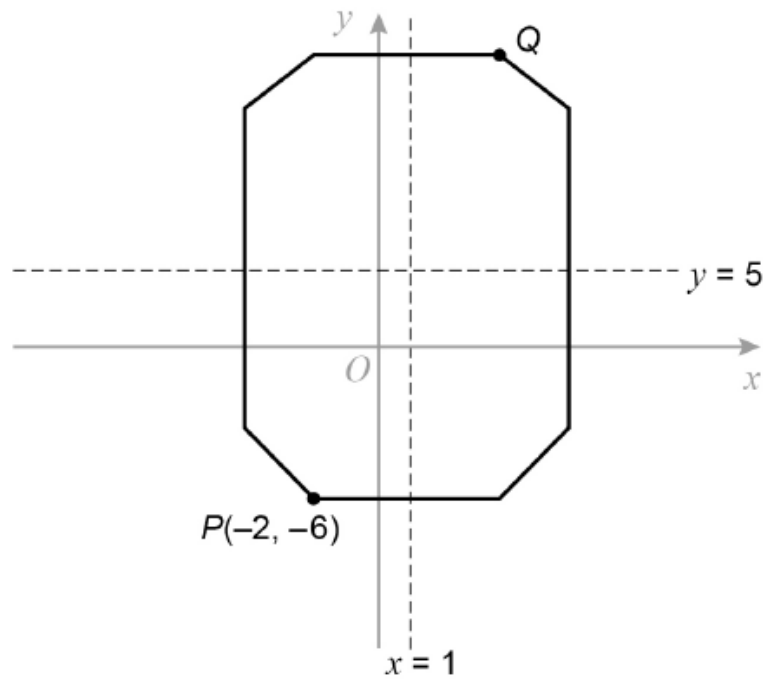
Tick a box for each part of her method.

[1 mark]

	Correct	Not correct
Add 3 and 5	<input type="checkbox"/>	<input type="checkbox"/>
Add 2 and 7	<input type="checkbox"/>	<input type="checkbox"/>

3. June/2021/Paper_1F/No.26

The diagram shows an octagon.



Not drawn accurately

$x = 1$ and $y = 5$ are lines of symmetry.

Work out the coordinates of point Q.

[2 marks]

Answer (_____ , _____)

4. June/2021/Paper_1F/No.32

Factorise $x^2 + 7x + 10$

[2 marks]

Answer _____

5. June/2021/Paper_1H/No.1

Simplify $(a^5)^3$

Circle your answer.

[1 mark]

$8a$

$15a$

a^8

a^{15}

6. June/2021/Paper_1H/No.14

Simplify $\frac{3}{x} + \frac{4}{x}$

Circle your answer.

[1 mark]

$\frac{7}{x}$

$\frac{7}{2x}$

$\frac{12}{x}$

$\frac{12}{x^2}$

(b) $g(x) = 2x$ and $h(x) = \frac{x-1}{2}$

Circle the expression for $hg(x)$

[1 mark]

$$\frac{2x^2 - x}{2}$$

$$\frac{2x - 1}{2}$$

$$x^2 - x$$

$$x - 1$$