<u>AQA - Algebra – GCSE Mathematics Paper_1</u>

1. June/2021/Paper_1F/No.2

Circle the expression that is equal to x + x + x - x + x

[1 mark]

х

2*x*

3*x*

4x

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
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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 $8p^9$

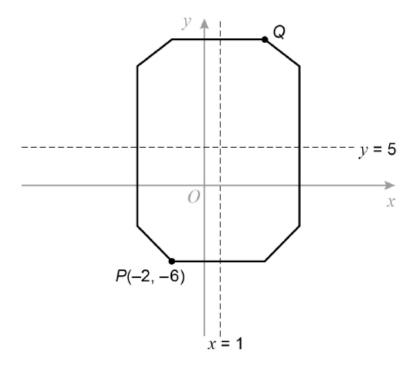
Tick a box for each part of her method.

[1 mark]

	Correct	Not correct
Add 3 and 5		
Add 2 and 7		

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

$$\left(a^{5}\right)$$

Circle your answer.

[1 mark]

8*a*

15*a*

 a^8

 a^{15}

6. June/2021/Paper_1H/No.14

Simplify

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

Circle your answer.

[1 mark]

$$\frac{7}{x}$$

$$\frac{7}{2x}$$

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

7	Juna/20)21/Paper	· 1H/No	15

$$(x+a)(x+3a) \equiv x^2 + bx + 75$$

Work out the two possible values of b. [3 marks] **8.** June/2021/Paper_1H/No.23

Rearrange	17 =	1
rtearrange	<i>y</i> =	$\sqrt{x+1}$

to make \boldsymbol{x} the subject.

[3 marks]

Answer ____

9.	June/2021,	/Paner	1H/No	24
7.	Julie/ 2021/	rapei_		.24

(a)
$$f(x) = cx + d$$

$$f(4) = 7$$

$$f(10) = 22$$

Work out the values of c and d.

[3	mar	ks]
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d = _____

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

Circle the expression for hg(x)

[1 mark]

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