One point questions	Two point questions
Simplify the following:	Multiply out the following:
e.g. 6p – 2p + 5p – 7p = 11p – 9p = 2p	**e.g.** 4(***3x*** + 5) = ***12x*** + 20 **e.g.** x(***4x*** – 7) = ***4x*** ^{2} **– 7x**
1. c + 2c + 3c	**1.** 3(***2x*** + 5)
2. 6d – d	**2.** 6(***3x*** – 2)
3. 7g – 2g – 3g	**3.** 5(2x + 3y)
4. 5i – 7i + 3i	**4.** x(3x – 4)
5. $6k^2 + 4k^2$	**5.** y(5y + 4)
6. 3r + 2s + 5r + 7s	**e.g.** 5(***2x*** + 4) + 3(***2x*** – 5) = ***10x*** + 20 + ***6x*** – 15 = ***16x*** + 5
7. 7t + 3u + 2t + 4u	
8. 6x + 5y – 2x + 3y	**6.** 4(***2x*** + 5) + 3(***5x*** + 4)
9. 5x + 3y – 4x + 7y	**7.** 4(3x + 7) + 3(5x – 2)
10. 7x – 3y + 3x – 5y	

Two point questions

Evaluate the following:

e.g. If m = 6, then

$4m - 5 = 4 \times 6 - 5 = 24 - 5 = \underline{\underline{19}}$

…for all these let **x = 4**…

1. $6x + 3$

2. $7x - 1$

3. $10 - 2x$

4. $x^2 + 10$

e.g. If p = -4, then

$p^2 = (-4)^2 = (-4) \times (-4) = 16$

… let **x = -2**…

5. $2x + 10$

6. $x^2 + 5$

7. $3x^2$

Three point questions

e.g. If x = 2 and y = -3, then

$5x - 4y = 5 \times 2 - 4 \times (-3)$

$= 10 + 12$

$= \underline{\underline{22}}$

for all these let **x = 3** and **y = -2**

1. $4x + 3y$

2. $2x - 3y$

3. $x^2 + y^2$

4. $(x + y)^2$

Factorise these:

e.g.1 $4x - 12 = \underline{\underline{4(x - 3)}}$

e.g.2 $x^2 + 4xy = \underline{\underline{x(x + 4y)}}$

1. $4x - 20$

2. $6x + 8$

3. $x^2 + 8xy$

Answers

One-point Questions [10]

1. 6c	2. 5d	3. 2g	4. l	5. $10k^2$
6. 8r + 9s	7. 9t + 7u	8. 4x + 8y	9. x + 10y	10. 10x – 8y

Two-point Questions [14 + 14]

1. 6x + 15	2. 18x - 12	3. 10x + 15y	4. $3x^2$- 4x	5. $5y^2$ + 4y
6. 23x + 32	7. 27x + 22			

1. 27	2. 27	3. 2	4. 26	5. 6
6. 6	7. 12			

Three-point Questions [21]

1. 6	2. 0	3. 13	4. 1	5. 4(x - 5)
6. 2(3x + 4)	7. x(x + 8y)			

Total points = 59

Additional guidance:

Two-point questions - assign 1 mark for either term correct

(e.g. (1) as 6x + 8 or 5x + 15)

Three-point questions - assign 1 mark for the correct working numbers seen

(e.g. (1) as 12 + -6 … = 18)

Three-point questions - assign 1 mark for the correct common factor and one correct term inside the brackets, or, a correct alternative

(e.g.4x - 20 = 2(2x - 10))