

Name	
Form	
Teacher	

**Maths**

**Homework Booklet**

**Year 7 Autumn 1**

**Set P,1,2,3**

Topic	Score achieved	Sparx %
1. Sparx	-	%
2. Sparx	-	%
3. Substitution	/15	%
4. One Step Equations	/16	%
5. Collecting Like Terms	/16	%
6. Continue a Sequence	/16	%
7. Term to term rule	/20	%



## Week 3

If  $y = -2$  work out the value of

1)  $y + 6$

2)  $4y$

3)  $2y - 1$

4)  $12 - y$

5)  $20 - 2y$

6)  $y^2$

7)  $4y^2$

8)  $2y^2 - y$

If  $x = -1$  and  $y = 3$  work out the value of

1)  $x + y$

2)  $2x + y$

3)  $x - 2y$

4)  $3(y - x)$

5)  $x^2 + y^2$

6)  $2y^2 - x^2$

7)  $5x^2 + y^2$

Sparx – Homework Answers



## Week 4

1)  $2x = 10$

2)  $5x = 30$

3)  $6 = 2x$

4)  $4x = 2$

5)  $10x = 5$

6)  $3x = -12$

7)  $2x = -1$

8)  $7x = -14$

1)  $\frac{x}{2} = 8$

2)  $\frac{x}{2} = 9$

3)  $\frac{x}{12} = 6$

4)  $\frac{x}{6} = 2$

5)  $\frac{x}{2} = -2$

6)  $\frac{x}{3} = -5$

7)  $-\frac{x}{5} = 2$

8)  $-\frac{x}{4} = -4$

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## Week 5

1)  $3a + a$

2)  $4c + 2c + c$

3)  $3b + 3b + 2b$

4)  $4d - d$

5)  $3c + 4c - 5c$

6)  $4a - 2a + 4a$

7)  $b + 4b - 3b + b$

8)  $2c - 4c + 3c - c$

1)  $2a + a + 3b$

2)  $2a + 2b + a + 2b$

3)  $3a + 2c + 2a + c$

4)  $a + 2b + 2a + b$

5)  $4a + b + 3a + b$

6)  $3a + 2c + 2c + a$

7)  $3d + 2c + d + 5c$

8)  $a + 2b + a + 3b + b$

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## Week 6

**1)** 31, ? , 27, ? , 23,....

**2)** 7, ? , 15, ? , 23,....

**3)** 31, ? , 21, ? , 11,....

**4)** 22, ? , 12, ? , 2,....

**5)** 14, ? , 28, ? , 42,....

**6)** 17, ? , 33, ? , 49,....

**7)** 50, ? , 46, ? , 42,....

**8)** 17, ? , 29, ? , 41,....

**1)** 14, ? , ? , 2,....

**2)** ? , 19 , ? , 15,....

**3)** ? , 37 , ? , 53,....

**4)** ? , 26 , ? , 36,....

**5)** 20, ? , ? , 11,....

**6)** 26, ? , ? , 35,....

**7)** 13, ? , ? , 22,....

**8)** ? , 24 , ? , 16,....



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## Describe the term to term rule

1, 2, 4, 8,

11, 17, 23, 29,

7, 15, 23, 31,

19, 17, 15, 13,

50, 43, 36, 29,

3, 7, 11, 15,

10, 40, 70, 100,

400, 200, 100, 50,

1000, 900, 800, 700,

10, 60, 110, 160,

18, 15, 12, 9,

1, 3, 5, 7,

15, 35, 55, 75,

8, 17, 26, 35,

2, 5, 8, 11,

100, 200, 300, 400,

300, 250, 200, 150,

11, 21, 31, 41,

1, 4, 16, 64,

25, 20, 15, 10,

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