**Simultaneous Equations GREEN**

1. Solve x + 8y = 26

x + y = 5

x = ……………

y = ……………

**(4 marks)**

2. Solve 2x + 3y = 16

4x – 3y = -4

x = ……………

y = ……………

**(4 marks)**

3. Solve 2x – 3y = 11

5x + 2y = 18

x = ……………

y = ……………

**(4 marks)**

4. Solve 2x + 3y = -3

3x – 2y = 28

x = ……………

y = ……………

**(4 marks)**

5. Solve 6x – 2y = 33

4x + 3y = 9

x = ……………

y = ……………

**(4 marks)**

6. Solve 3x + 7y = 26

4x + 5y = 13

x = ……………

y = ……………

**(4 marks)**

7. Solve 3x – 4y = 11

5x + 6y = 12

x = ……………

y = ……………

**(4 marks)**

8. Solve 6x – 4y = 8

5x + 3y = -25

x = ……………

y = ……………

**(4 marks)**

**Simultaneous Equations AMBER**

1) Scale up (if necessary)

2) Add or subtract (to eliminate)

3) Solve (to find x)

4) Substitute (to find y)

1. Solve x + 8y = 26

x + y = 5

No need to scale up this one!

x = ……………

y = ……………

**(4 marks)**

2. Solve 2x + 3y = 16

4x – 3y = -4

No need to scale up this one!

x = ……………

y = ……………

**(4 marks)**

3. Solve 2x – 3y = 11

5x + 2y = 18

From here onwards they need scaling up!

x = ……………

y = ……………

**(4 marks)**

4. Solve 2x + 3y = -3

3x – 2y = 28

x = ……………

y = ……………

**(4 marks)**

5. Solve 6x – 2y = 33

1) Scale up (if necessary)

2) Add or subtract (to eliminate)

3) Solve (to find x)

4) Substitute (to find y)

4x + 3y = 9

x = ……………

y = ……………

**(4 marks)**

6. Solve 3x + 7y = 26

4x + 5y = 13

x = ……………

y = ……………

**(4 marks)**

7. Solve 3x – 4y = 11

5x + 6y = 12

x = ……………

y = ……………

**(4 marks)**

8. Solve 6x – 4y = 8

5x + 3y = -25

x = ……………

y = ……………

**(4 marks)**

**Simultaneous Equations RED**

1) Scale up (if necessary)

2) Add or subtract (to eliminate)

3) Solve (to find x)

4) Substitute (to find y)

1. Solve x + 8y = 26

x + y = 5

No need to scale up this one!

The x values have the same coefficient and the same sign so SUBTRACT

x = ……………

y = ……………

**(4 marks)**

2. Solve 2x + 3y = 16

4x – 3y = -4

No need to scale up this one!

The y values have the same coefficient and the same sign so ADD

x = ……………

y = ……………

**(4 marks)**

3. Solve 2x – 3y = 11 (x5)

5x + 2y = 18 (x2)

From here onwards they need scaling up!

\_\_\_\_\_\_\_\_\_

10x – 15y = 55

The x values have the same coefficient and the same sign so SUBTRACT

10x + 4y = 36

x = ……………

y = ……………

**(4 marks)**

4. Solve 2x + 3y = -3 (x3)

3x – 2y = 28 (x2)

x = ……………

y = ……………

**(4 marks)**

5. Solve 6x – 2y = 33

1) Scale up (if necessary)

2) Add or subtract (to eliminate)

3) Solve (to find x)

4) Substitute (to find y)

4x + 3y = 9

x = ……………

y = ……………

**(4 marks)**

6. Solve 3x + 7y = 26

4x + 5y = 13

x = ……………

y = ……………

**(4 marks)**

7. Solve 3x – 4y = 11

5x + 6y = 12

x = ……………

y = ……………

**(4 marks)**

8. Solve 6x – 4y = 8

5x + 3y = -25

x = ……………

y = ……………

**(4 marks)**