





SUPER 12s CAN BE USED AS AN INDIVIDUALISED MASTERY LEARNING PROGRAM.

2 ALGEBRA

2.7 FACTORISING

2.7 LEVEL 1

IN I		N 4		_
N	Α	М	ь.	•

Skill description: Factorising binomial expressions that contain a common numeric factor.

Essential Revision: Use the distributive law to expand the brackets.

1.

3(x + 5)

2.

2(y-1)

3.

6(a + 1)

4.

7(x - 2)

5.

9(b + 2)

6.

4(x - 5)

7

7(d-1)

8.

3(b + 4)

9.

6(c-2)

10.

5(x + 10)

11.

3(x - 6)

12.

9(x - 2)

Solutions can be found at the end of the booklet.

score

12

STRATEGIES TO SOLVE THE PROBLEMS

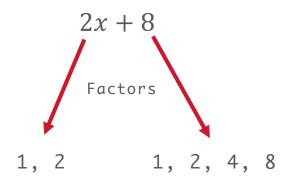
Example 1

Factorise.

$$2x + 8$$

Step 1

Look for common factors in the numbers or variables. It often helps to list the factors of each term.



Step 2

Choose the **highest common factor** and place that outside the bracket.

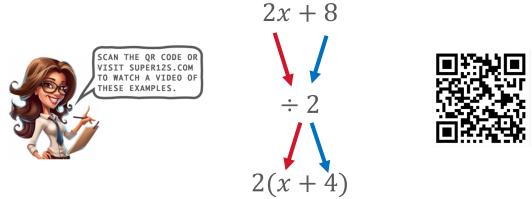
Highest common factor = 2

$$2x + 8$$

$$2()$$

Step 3

To determine the terms that go inside the bracket, divide each of the original terms by the factor.



© Super 12s Visit super12s.com for copyright details.

Visit super12s.com for more than 200 Algebra booklets just like this one!

OUESTIONS

Factorise.

1

5x + 20

2.

3x + 15

3 .

6b + 18

4

10x + 30

5.

12x - 48

6.

2c + 24

7.

4x - 16

8.

7a + 35

9.

10x + 200

10.

8d - 40

11.

6x + 36

12.

2x - 50



SOLUTIONS CAN BE FOUND AT THE END OF THE BOOKLET.

score

<u>12</u>

MASTERY TEST

Teacher's signature

I'VE COMPLETED

LEVELS THIS YEAR





Solutions to Essential Revision

- 1. 3x + 15
-
- 3. 6a + 6
- 5. 9b + 18
- 7. 7d 7
- 9. 6c 12
- 11. 3x 18

- $2. \quad 2y 2$
- 4. 7x 14
- 6. 4x 20
- 8. 3b + 12
- 10. 5x + 50
- 12. 9x 18

Solutions to Questions

1. 5(x+4)

2.

3(x + 5)

3. 6(b+3)

4. 10(x+3)

5. 12(x-4)

6. 2(c+12)

7. 4(x-4)

8. 7(a+5)

9. 10(x + 20)

10. 8(d-5)

11. 6(x+6)

12. 2(x-25)

Visit super12s.com for more than 200 Algebra booklets just like this one!