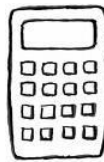


Name: _____

Teacher
Assessment



Section A **Simplifying** **Grade D → B**

1. Simplify the expression

$$2c + 6d + 4c - 8c$$

.....

Answer

(Total 2 marks)

2. (a) Expand $3(4y + 1)$

.....

Answer.....

(1)

(b) Expand $4x(x^2 + 5)$

.....

Answer.....

(2)

(Total 3 marks)

3. Expand and simplify

$$5(2a - c) + 4(3a + 2c)$$

.....

.....

Answer

(Total 2 marks)

4. (a) Expand and simplify $4(2x - 1) + 3(x + 6)$

.....

.....

.....

Answer

(2)

(b) Expand $x^2(4 - 2x)$

.....

.....

Answer

(2)

(Total 4 marks)

5. Expand and simplify

$$4(3d - 2e) - (2d - 5e)$$

.....
.....
.....

Answer
(Total 2 marks)

6. Expand and simplify

$$5(2x + 1) - 3(x - 4)$$

.....
.....

Answer
(Total 2 marks)

7. Expand and simplify $(x + 3)(x + 1)$

.....
.....
.....

Answer
(Total 2 marks)

8. (i) Expand and simplify $(y + 5)(y - 1)$

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.....

Answer
(1)

(ii) When y is an odd number, explain why $(y + 5)(y - 1)$ is an even number.

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.....
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(1)
(Total 3 marks)

9. Expand and simplify $(2x - 3)(3x + 5)$

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.....

Answer
(Total 3 marks)

10. Expand and simplify $(4x - 3)(x + 5)$

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.....

Answer
(Total 3 marks)

11. Multiply out and simplify $(n + 3)^2$

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Answer
(Total 2 marks)

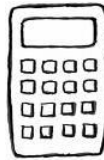
12. Simplify $(2xy^2)^3$

.....
.....

Answer
(Total 2 marks)

Success:

Target:



Section B **Factorising** **Grade D → A**

1. Factorise $6a - 10$

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Answer

(Total 1 mark)

2. Factorise $2x + 6$

.....

Answer.....

(Total 1 mark)

3. Factorise completely $2a^2 - a$

.....

Answer

(Total 2 marks)

4. (a) Factorise $10p - 4$

.....

Answer

(1)

(b) Factorise $q^2 + 3q$

.....

Answer

(1)

(c) Factorise $r^2 - r$

.....

Answer

(1) (Total 3 marks)

5. (a) Factorise $4c + 12$

.....

Answer

(1)

(b) Factorise $x^2 + 5x$

.....

Answer

(2)(Total 3 marks)

6. (a) Factorise $10a + 5$

.....

Answer

(1)

(b) Factorise $c^2 - 4c$

.....

Answer

(2)(Total 3 marks)

7. (a) Factorise $3x - 6$

.....

Answer

(1)

(b) Factorise $x^2 - 2x$

Answer

(2)(Total 3 marks)

8. Factorise completely $12y^2 - 8y$

.....

.....

Answer

(Total 2 marks)

9. Factorise fully $6ab^2 - 2ab$

.....

Answer

(Total 2 marks)

10. Factorise $y^2 + 5y + 6$

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Answer

(Total 2 marks)

11. Factorise $x^2 + 10x + 25$

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.....

Answer
(Total 2 marks)

12. Factorise $x^2 + 3x - 40$

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.....

Answer.....
(Total 2 marks)

13. Factorise $x^2 + 6x - 16$

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Answer
(Total 2 marks)

14. Factorise $x^2 + 5x - 14$

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Answer
(Total 2 marks)

15. Factorise $x^2 - 7x - 8$

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Answer
(Total 2 marks)

16. Factorise $x^2 - 13x + 36$

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Answer.....
(Total 2 marks)

17. Factorise $h^2 - 25$

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Answer

(Total 1 mark)

18. Factorise $m^2 - 49$

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Answer

(Total 1 mark)

19. Factorise fully $2x^2 - 50y^2$

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Answer

(Total 3 marks)

20. (a) Factorise $x^2 - 10x + 25$

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Answer

(2)

(b) Factorise $2x^2 + 3x - 5$

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Answer

(2)

(Total 4 marks)

21. Factorise $2n^2 + 5n + 3$

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Answer

(Total 2 marks)

22. Factorise

(a) $x^2 - 4$

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Answer.....

(1)

(b) $3x^2 - 12$

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Answer.....

(2)

(c) $5x^2 - 17x + 6$

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Answer.....

(2)

(Total 5 marks)

23. Factorise $3x^2 + 5x - 12$

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Answer

(Total 2 marks)

24. (a) Factorise $5x^2 + 20x$

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Answer

(1)

(b) Factorise $x^2 - 49$

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Answer

(1)

(c) Factorise fully $(3x + 4)^2 - (2x + 1)^2$

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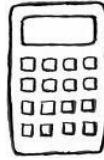
Answer

(3)

(Total 5 marks)

Success:

Target:



Section C

Algebraic Fractions

Grade A / A*

1. Simplify $\frac{x^2 - 9}{x^2 + 3x}$

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Answer

(Total 3 marks)

2. Simplify fully the expression

$$\frac{8x^2 + 24x}{2x^2 + 5x - 3}$$

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Answer

(Total 3 marks)

3. Simplify

$$\frac{5x^2 + 14x - 3}{x^2 - 9}$$

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Answer

(Total 4 marks)

4. Simplify fully

$$\frac{x^2 - 16}{3x^2 + 10x - 8}$$

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Answer

(Total 4 marks)

5. Simplify

$$\frac{3x^2 + x - 2}{9x^2 - 4}$$

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Answer

(Total 4 marks)

Success:

Target: