



Maths-it Podcast F-08

Foundation GCSE Revision

Manipulating Expressions

Topics

Collecting like terms - Expanding single brackets - Expanding two brackets
Expressions with indices - Factorising

Questions

1. Simplify

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

(1)

b) $3e - 2f + 4e - f$

(2)

c) $p^3 + p^3$

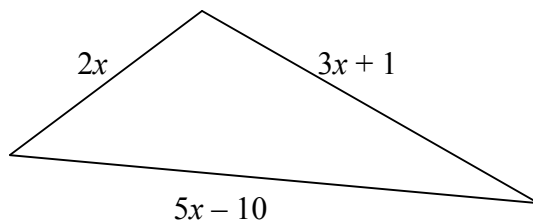
(1)

d) $5xy - 2xy$

(1)

(Total 5 marks)

2. Write an expression for the perimeter of this shape. Simplify your answer.



(Total 3 marks)

3. Expand

a) $3(a + 2b)$

b) $3ab(2a + b^2)$

(Total 4 marks)

4. Expand and simplify

a) $3(a + 2b) + 4(2a - 3b)$

b) $(a + 2b)(2a - b)$

(Total 5 marks)



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5. Simplify

a) $15p^5 \div 5p^2$

b) $a^2 \times 5a$

(Total 2 marks)

6. (a) Expand and simplify, $3(a-2b)-(4a-9b)$

(b) Factorise fully, $24a+32$

(c) Factorise fully, $7x^2+21x$

_____ (3)

_____ (2)

_____ (3)

(Total 8 marks)

7. Expand

(a) $3(a-7)$

(b) $4x(x+2y)$

(c) $(x-1)(x+4)$

_____ (1)

_____ (2)

_____ (2)

(Total 5 marks)