Grade	9 Poly	nomials/	Quiz 1
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2019 V2

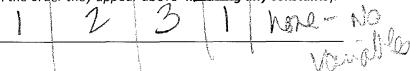
(Page 1: Outcome C-1)

1) For each polynomial:

- $x^{5} + 2x^{3}y + 3x^{3}y + y^{4} + 2$
- a) State the degree of each term

b) State the number of terms

- (in the order they appear above including any constants)
- c) State the coefficients of each term (in the order they appear above- including any constants)

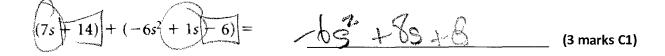


d) State the degree of the expression not to spot and the polynomial

/ 6 marks (0.5 x 12) C1

2) Create an expression that does not qualify as a polynomial and say why it does not:

3) Write the following sum of polynomials as one expression in standard form (ie. Descending order)



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(Page 2: Outcome C-2)

4) Simplify the following polynomials by collecting like terms: *They need not be in standard form*.

5) Add the following polynomials by collecting like terms.

Express each answer below in standard form

$$(3x^{2} + 2xy + 4y^{2}) + (6x^{2} - 5xy + 3y^{2}) + (9x^{2} - 25y^{2})$$

$$- (8x^{2} - 3yy - 8y^{2}) - (9x^{2} - 25y^{2})$$
/4 marks C2

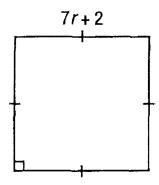
$$\frac{(4a^3 + 7a^2b + 6b^3) + (a^3 + 2a^2b + 4b^3)}{50^3 + 00^2 + 000^3}$$
/4 marks C2

$$(12ab^{2} - 7a^{2}b) + (3ab + 4a^{2}b + 6ab^{2})$$

$$-20b + (3ab + 3ab + 6ab^{2})$$
/4 marks C2

6) Write an addition statement for the second shape (using brackets and a plus sign to separate each expression), followed by the perimeter of each shape as a simplified expression:

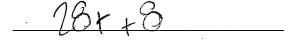
6a)



Example: The addition statement looks like:

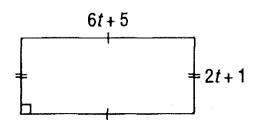
$$(7r+2)+(7r+2)+(7r+2)+(7r+2)$$

The simplified perimeter equals:



/ 1 mark C2

6b)



The addition statement looks like: (6+5)+(2+1)+(4+5)+(2+1)

The simplified perimeter equals:

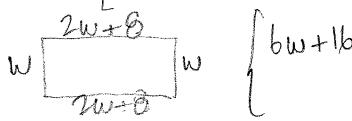
1 SIMPLIFIED PAYNOWNIA

7) Write ATTEMPTERS For the perimeter of a rectangle with a length that is 8 cm longer than twice its width.

Draw and label a diagram before writing the answer.

/ 3 marks C2

/ 1 mark C2



Outcome C1: /11 marks

Outcome C2: /23 marks

Quiz total:

/34 marks