2.4 Introduction to Algebraic Notation: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Identify the coefficient and the constant term in each expression.

(a) In 9x + 6, state the coefficient of x and the constant term. **(1)**

(b) In -3p - 2, state the coefficient of p and the constant term. **(1)**

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2 Stretch question. Compare two expressions and decide which is larger for given values. Give a reason for your answer.

(a) Which is greater when x = 5: 3x + 2 or 2x + 8? Show your working and give a reason. **(4)**

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3 Simplify 28pz ÷ 4z.

(2)

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Mark scheme · 2.4 Introduction to Algebraic Notation: 10-minute Pack

Question 1

(a) coefficient 9 and constant 6 cao	**B1**
(a) Answer: **coefficient 9, constant 6**	
(b) coefficient -3 and constant -2 cao	**B1**
(b) Answer: **coefficient -3, constant -2**	

Question 2

(a) substitutes x = 5 into both expressions correctly (3x + 2 = 17 and 2x + 8 = 18 or equivalent working)	**M1**
(a) states 2x + 8 is greater cao	**A1**
(a) gives correct reason: 18 > 17, so 2x + 8 is larger when x = 5	**A1**
(a) arithmetic correct and clear cao	**A1**
(a) Answer: **2x + 8 is greater**	

Question 3

multiplies (or divides) the numbers correctly or the letters correctly	**M1**
7p cao	**A1**
Answer: **7p**	

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