2.9 Factorising into Single Brackets: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Factorise each expression where the coefficients are small primes.

(a) Factorise 5x + 15 **(1)**

(b) Factorise 11y - 33 **(1)**

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2 Factorise each expression with three terms where a single common factor exists.

(a) Factorise 9x + 3y + 6 **(2)**

(b) Factorise 12a - 8b + 4c **(2)**

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3 Factorise fully -18k - 30, giving your answer with a positive number outside the bracket. State whether the terms inside the bracket are both positive.

(3)

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Mark scheme · 2.9 Factorising into Single Brackets: 10-minute Pack

Question 1

(a) 5(x + 3) cao	**B1**
(a) Answer: **5(x + 3)**	
(b) 11(y - 3) cao	**B1**
(b) Answer: **11(y - 3)**	

Question 2

(a) identify GCF 3	**M1**
(a) 3(3x + y + 2) cao	**A1**
(a) Answer: **3(3x + y + 2)**	
(b) identify GCF 4	**M1**
(b) 4(3a - 2b + c) cao	**A1**
(b) Answer: **4(3a - 2b + c)**	

Question 3

take out -6, correctly changing both signs	**M1**
correct factorised form -6(3k + 5)	**M1**
state that both terms inside the bracket (3k and 5) are positive, so cao explanation	**A1**

Answer: **-6(3k + 5); yes, both terms inside the bracket are positive**

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