2.14-2 Early Algebra: Practice Set 2: 10-minute Pack

GL ASSESSMENT GL · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Simplify 8m + 5m - 6m.

- [ ] A) 19m
- [ ] B) 7m
- [ ] C) 13m
- [ ] D) 6m
- [ ] E) 3m

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2 x = 6 and y = 2. Work out x + y.

- [ ] A) 36
- [ ] B) 3
- [ ] C) 12
- [ ] D) 4
- [ ] E) 8

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3 Solve x + 9 = 15.

- [ ] A) 6
- [ ] B) 5
- [ ] C) 24
- [ ] D) 7
- [ ] E) -6

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

(2)

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5 Solve $2n + 9 = 1$.

- ☐ A) -4
- ☐ B) -8
- ☐ C) 5
- ☐ D) 4
- ☐ E) -5

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6 Factorise $8x + 12$ fully.

- ☐ A) $4x(2 + 3)$
- ☐ B) $2(4x + 6)$
- ☐ C) $4(2x + 3)$
- ☐ D) $4(x + 3)$
- ☐ E) $4(2x + 12)$

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7 Here is a number sequence: 4, 10, 16, 22, ...

(a) State the next two terms of this sequence. **(2)**

(b) Describe the rule for getting from one term to the next. **(1)**

(c) Calculate the 15th term of the sequence. **(2)**

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Mark scheme · 2.14-2 Early Algebra: Practice Set 2: 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

B (7m) cao **B1**

Answer: 7m

Question 2

E (8) cao **B1**

Answer: 8

Question 3

A (x = 6) cao **B1**

Answer: x = 6

Question 4

4x + 12 + 2x - 12 seen (both brackets expanded correctly) **M1**

6x cao **A1**

Answer: 6x

Question 5

A (n = -4) cao **B1**

Answer: n = -4

Question 6

C (4(2x + 3)) cao, fully factorised **B1**

Answer: 4(2x + 3)

Question 7

(a) 28 cao **B1**

(a) 34 cao **B1**

(a) Answer: 28, 34

(b) add 6 (each time) oe **B1**

(b) Answer: add 6 each time

(c) correct method, e.g. nth term 6n - 2 found or sequence continued correctly to the 15th term **M1**

(c) 88 cao **A1**

(c) Answer: 88

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