6.4 Position, Direction and Turns: 30-minute Pack

STA NC-KS1-MATHS-STA · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A robot stands on a square grid at column 2, row 2 (columns go across, rows go up). It moves 1 square left, then 2 squares down, then 3 squares right.

Which column and row is the robot on now? Write column then row.

Answer: column ___, row ___

(2)

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2 A robot stands on a square grid at column 2, row 1 (columns go across, rows go up). It moves 2 squares left, then 3 squares up.

Which column and row is the robot on now? Write column then row.

Answer: column ___, row ___

(2)

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3 7 children stand in a line, from the front: Zara, Tom, Reece, Nia, Freya, Bella, Yusuf.

Who is fifth in the line?

Answer: ___

(1)

---

4 A robot stands on a square grid at column 2, row 1 (columns go across, rows go up). It moves 2 squares right, then 2 squares left.

Which column and row is the robot on now? Write column then row.

Answer: column ___, row ___

(2)

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5 Stepping stones are numbered 1 to 20. A frog stands on stone 3. It hops forward 6 stones, then back 3 stones.

Which stone is the frog on now?

Answer: ___

(2)

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6 Stepping stones are numbered 1 to 20. A kangaroo stands on stone 14. It hops forward 2 stones, then back 2 stones.

Which stone is the kangaroo on now?

Answer: ___

(2)

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7 Stepping stones are numbered 1 to 20. A kangaroo stands on stone 10. It hops forward 3 stones, then back 3 stones.

Which stone is the kangaroo on now?

Answer: ___

(2)

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8 Stepping stones are numbered 1 to 20. A frog stands on stone 1. It hops forward 3 stones, then back 3 stones.

Which stone is the frog on now?

Answer: ___

(2)

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9 Stepping stones are numbered 1 to 20. A frog stands on stone 2. It hops forward 7 stones, then back 4 stones.

Which stone is the frog on now?

Answer: ___

(2)

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10 Four toy animals sit in a row from left to right: fish, cat, hen, duck.

Which toy is on the far left?

Answer: ___

(1)

---

11 Four toy animals sit in a row from left to right: fish, duck, dog, hen.

Which toy is between the duck and the hen?

Answer: ___

(1)

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12 A robot stands on a square grid at column 1, row 2 (columns go across, rows go up). It moves 1 square right, then 3 squares right, then 1 square down.

Which column and row is the robot on now? Write column then row.

Answer: column ___, row ___

(2)

---

13 On a grid of four boxes in a square, a teddy is in the bottom right. Move the teddy two steps: first one step up, then one step left. Where is it now? (top left, top right, bottom left or bottom right)

(1)

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Mark scheme · 6.4 Position, Direction and Turns: 30-minute Pack

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

Question 1

one move tracked correctly	M1
column 4, row 0 cao	A1

Answer: **column 4, row 0**

Question 2

one move tracked correctly	M1
column 0, row 4 cao	A1

Answer: **column 0, row 4**

Question 3

Freya cao	B1

Answer: **Freya**

Question 4

one move tracked correctly	M1
column 2, row 1 cao	A1

Answer: **column 2, row 1**

Question 5

3 + 6 = 9 seen	M1
6 cao	A1

Answer: **6**

Question 6

14 + 2 = 16 seen	M1
14 cao	A1

Answer: **14**

Question 7

10 + 3 = 13 seen	M1
10 cao	A1

Answer: **10**

Question 8

1 + 3 = 4 seen	M1
1 cao	A1

Answer: **1**

Question 9

2 + 7 = 9 seen	M1
5 cao	A1

Answer: **5**

Question 10

fish cao	B1

Answer: **fish**

Question 11

dog cao	B1

Answer: **dog**

Question 12

one move tracked correctly	M1
column 5, row 1 cao	A1

Answer: **column 5, row 1**

Question 13

top left cao	B1

Answer: **top left**

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