6.4 Position, Direction and Turns: 1-hour Pack

STA NC-KS1-MATHS-STA · Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 How many quarter turns make a half turn?

Answer: ___

(1)

---

2 Four toy animals sit in a row from left to right: bird, rabbit, hen, duck.

Which toy is on the far left?

Answer: ___

(1)

---

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

Which toy is on the far left?

Answer: ___

(1)

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4 Stepping stones are numbered 1 to 20. A grasshopper stands on stone 13. It hops forward 2 stones, then back 2 stones.

Which stone is the grasshopper on now?

Answer: ___

(2)

---

5 Stepping stones are numbered 1 to 20. A rabbit stands on stone 2. It hops forward 5 stones, then back 2 stones.

Which stone is the rabbit on now?

Answer: ___

(2)

---

6 Four toy animals sit in a row from left to right: dog, pig, duck, bird.

Which toy is on the far left?

Answer: ___

(1)

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7 Four toy animals sit in a row from left to right: cow, bird, fish, cat.

Which toy is on the far left?

Answer: ___

(1)

---

8 A boy stands facing south. He turns right then right again. Which way is he facing now?

(1)

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

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

Answer: column ___, row ___

(2)

---

10 Stepping stones are numbered 1 to 20. A frog stands on stone 10. It hops forward 3 stones, then back 4 stones.

Which stone is the frog on now?

Answer: ___

(2)

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11 Four toy animals sit in a row from left to right: cow, rabbit, fish, cat.

Which toy is on the far left?

Answer: ___

(1)

---

12 Stepping stones are numbered 1 to 20. A kangaroo stands on stone 8. It hops forward 2 stones, then back 1 stone.

Which stone is the kangaroo on now?

Answer: ___

(2)

---

13 Stepping stones are numbered 1 to 20. A grasshopper stands on stone 12. It hops forward 4 stones, then back 2 stones.

Which stone is the grasshopper on now?

Answer: ___

(2)

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14 7 children stand in a line, from the front: Grace, Tom, Hassan, Ivan, Yusuf, Aaron, Uma.

Who is fourth in the line?

Answer: ___

(1)

---

15 6 children stand in a line, from the front: Kiran, Reece, Yusuf, Daisy, Priya, Grace.

Who is fourth in the line?

Answer: ___

(1)

---

16 A bird faces west. It turns a quarter turn clockwise twice. Which way does it face now?

(1)

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17 Stepping stones are numbered 1 to 20. A grasshopper stands on stone 14. It hops forward 2 stones, then back 3 stones.

Which stone is the grasshopper on now?

Answer: ___

(2)

---

18 A child is on a board game square. They move forward 3, then back 1. How many squares have they moved from the start? (use a number)

(1)

---

19 On a 3 by 3 number grid the frog starts in the middle square. It moves one square left then one square up. Where is it now? (top left, top centre, top right, middle left, middle centre, middle right, bottom left, bottom centre, bottom right)

(1)

---

20 One quarter turn is a turn of 90 degrees. A full turn is 360 degrees. How many quarter turns make one full turn?

(1)

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21 Stepping stones are numbered 1 to 20. A kangaroo stands on stone 2. It hops forward 6 stones, then back 5 stones.

Which stone is the kangaroo on now?

Answer: ___

(2)

---

22 Stepping stones are numbered 1 to 20. A grasshopper stands on stone 13. It hops forward 6 stones, then back 4 stones.

Which stone is the grasshopper on now?

Answer: ___

(2)

---

23 Stepping stones are numbered 1 to 20. A frog stands on stone 8. It hops forward 6 stones, then back 2 stones.

Which stone is the frog on now?

Answer: ___

(2)

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24 Stepping stones are numbered 1 to 20. A kangaroo stands on stone 4. It hops forward 4 stones, then back 1 stone.

Which stone is the kangaroo on now?

Answer: ___

(2)

---

25 Four toy animals sit in a row from left to right: cow, bird, rabbit, dog.

Which toy is on the far right?

Answer: ___

(1)

---

26 Four toy animals sit in a row from left to right: dog, rabbit, cat, fish.

Which toy is on the far left?

Answer: ___

(1)

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27 Stepping stones are numbered 1 to 20. A rabbit stands on stone 3. It hops forward 4 stones, then back 4 stones.

Which stone is the rabbit on now?

Answer: ___

(2)

---

28 Four toy animals sit in a row from left to right: pig, cow, duck, fish.

Which toy is on the far right?

Answer: ___

(1)

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

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

Answer: column ___, row ___

(2)

---

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

Which toy is on the far left?

Answer: ___

(1)

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Mark scheme · 6.4 Position, Direction and Turns: 1-hour Pack

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

Question 1

2 cao — **B1**

Answer: **2**

Question 2

bird cao — **B1**

Answer: **bird**

Question 3

rabbit cao — **B1**

Answer: **rabbit**

Question 4

13 + 2 = 15 seen — **M1**

13 cao — **A1**

Answer: **13**

Question 5

2 + 5 = 7 seen — **M1**

5 cao — **A1**

Answer: **5**

Question 6

dog cao — **B1**

Answer: **dog**

Question 7

cow cao — **B1**

Answer: **cow**

Question 8

north cao — **B1**

Answer: **north**

Question 9

one move tracked correctly — **M1**

column 3, row 3 cao — **A1**

Answer: **column 3, row 3**

Question 10

10 + 3 = 13 seen — **M1**

9 cao — **A1**

Answer: **9**

Question 11

cow cao — **B1**

Answer: **cow**

Question 12

8 + 2 = 10 seen — **M1**

9 cao — **A1**

Answer: **9**

Question 13

12 + 4 = 16 seen — **M1**

14 cao — **A1**

Answer: **14**

Question 14

Ivan cao — **B1**

Answer: **Ivan**

Question 15

Daisy cao — **B1**

Answer: **Daisy**

Question 16

east cao — **B1**

Answer: **east**

Question 17

14 + 2 = 16 seen — **M1**

13 cao — **A1**

Answer: **13**

Question 18

2 cao — **B1**

Answer: **2**

Question 19

top left cao — **B1**

Answer: **top left**

Question 20

4 cao — **B1**

Answer: **4**

Question 21

2 + 6 = 8 seen — **M1**

3 cao — **A1**

Answer: **3**

Question 22

13 + 6 = 19 seen — **M1**

15 cao — **A1**

Answer: **15**

Question 23

8 + 6 = 14 seen — **M1**

12 cao — **A1**

Answer: **12**

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Question 24

4 + 4 = 8 seen	M1
7 cao	A1

Answer: **7**

Question 25

dog cao	B1

Answer: **dog**

Question 26

dog cao	B1

Answer: **dog**

Question 27

3 + 4 = 7 seen	M1
3 cao	A1

Answer: **3**

Question 28

fish cao	B1

Answer: **fish**

Question 29

one move tracked correctly	M1
column 5, row 2 cao	A1

Answer: **column 5, row 2**

Question 30

hen cao	B1

Answer: **hen**

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