6.2 Shape, Position and Direction: 1-hour Pack

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

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

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

Which toy is between the rabbit and the duck?

(1)

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

Which toy is on the far right?

(1)

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3 A robot stands on a square grid at column 0, row 2 (columns go across, rows go up). It moves 1 square down, then 3 squares up, then 2 squares down.

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

(2)

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4 Mia is facing north. Mia makes a half turn.

Which direction is Mia facing now?

(1)

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5 Is a book cover a 2D shape or a 3D shape?

(1)

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6 Look at the pattern. What comes next?

circle, circle, square, circle, circle, square, circle, ___

(1)

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7 How many corners does a circle have?

(1)

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8 6 children stand in a line, from the front: Reece, Zara, Chloe, Freya, Bella, Tom.

What position is Reece in the line? Write your answer as first, second, third and so on.

(1)

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

Which toy is between the duck and the bird?

(1)

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

Which toy is on the far right?

(1)

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

Which stone is the kangaroo on now?

(2)

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

Which stone is the frog on now?

(2)

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13 Grace is facing east. Grace makes a quarter turn clockwise.

Which direction is Grace facing now?

(1)

---

14 Is a ball a 2D shape or a 3D shape?

(1)

---

15 How many corners does a hexagon have?

(1)

---

16 Look at the pattern. What comes next?

red, blue, red, blue, red, blue, red, ___

(1)

---

17 Look at the pattern. What comes next?

red, blue, green, red, blue, green, red, ___

(1)

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18 How many vertices (corners) does a triangular prism have?

(1)

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19 Stepping stones are numbered 1 to 20. A rabbit stands on stone 3. It hops forward 7 stones, then back 4 stones.

Which stone is the rabbit on now?

(2)

---

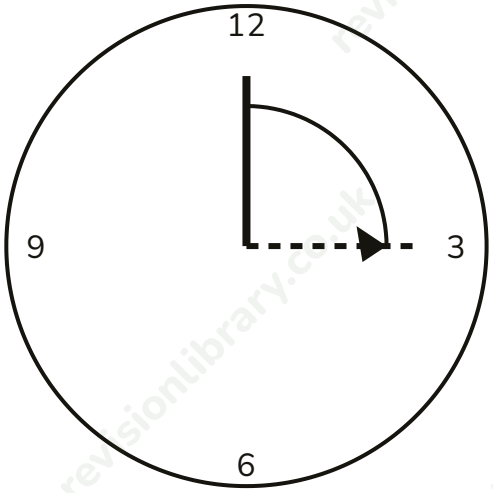
20 A robot stands on a square grid at column 2, row 3 (columns go across, rows go up). It moves 1 square right, then 3 squares right.

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

(2)

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21 Look at the clock face below. The hour hand starts pointing at 12 and turns to point at 3.



(a) Is this a clockwise or an anticlockwise turn? **(1)**

(b) Is this a quarter turn, a half turn or a three-quarter turn? **(1)**

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

Which toy is on the far right?

(1)

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

Which stone is the rabbit on now?

(2)

---

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

Which stone is the rabbit on now?

(2)

---

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

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

(2)

---

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

Which stone is the grasshopper on now?

(2)

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27 How many faces does a cuboid have?

(1)

---

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

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

(2)

---

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

Which toy is on the far left?

(1)

---

30 Stepping stones are numbered 1 to 20. A grasshopper stands on stone 13. It hops forward 5 stones, then back 2 stones.

Which stone is the grasshopper on now?

(2)

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31 Here are some flat shapes: square, pentagon, square, rectangle, pentagon.

How many of the shapes has more than 4 sides?

(1)

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32 I am a flat shape. It has 3 straight sides and 3 corners.

What shape am I?

(1)

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Mark scheme · 6.2 Shape, Position and Direction: 1-hour Pack

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

Question 1

fish cao — **B1**

Answer: **fish**

Question 2

bird cao — **B1**

Answer: **bird**

Question 3

one move tracked correctly — **M1**

column 0, row 2 cao — **A1**

Answer: **column 0, row 2**

Question 4

south cao — **B1**

Answer: **south**

Question 5

2D cao — **B1**

Answer: **2D**

Question 6

circle cao — **B1**

Answer: **circle**

Question 7

0 cao — **B1**

Answer: **0**

Question 8

first cao — **B1**

Answer: **first**

Question 9

fish cao — **B1**

Answer: **fish**

Question 10

fish cao — **B1**

Answer: **fish**

Question 11

3 + 4 = 7 seen — **M1**

3 cao — **A1**

Answer: **3**

Question 12

1 + 5 = 6 seen — **M1**

4 cao — **A1**

Answer: **4**

Question 13

south cao — **B1**

Answer: **south**

Question 14

3D cao — **B1**

Answer: **3D**

Question 15

6 cao — **B1**

Answer: **6**

Question 16

blue cao — **B1**

Answer: **blue**

Question 17

blue cao — **B1**

Answer: **blue**

Question 18

6 cao — **B1**

Answer: **6**

Question 19

3 + 7 = 10 seen — **M1**

6 cao — **A1**

Answer: **6**

Question 20

one move tracked correctly — **M1**

column 6, row 3 cao — **A1**

Answer: **column 6, row 3**

Question 21

(a) clockwise cao — **B1**

(a) Answer: **clockwise**

(b) quarter turn cao — **B1**

(b) Answer: **quarter turn**

Question 22

duck cao — **B1**

Answer: **duck**

Question 23

4 + 2 = 6 seen — **M1**

4 cao — **A1**

Answer: **4**

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Question 24

13 + 4 = 17 seen	M1
15 cao	A1

Answer: **15**

Question 25

one move tracked correctly	M1
column 3, row 0 cao	A1

Answer: **column 3, row 0**

Question 26

10 + 7 = 17 seen	M1
16 cao	A1

Answer: **16**

Question 27

6 cao	B1

Answer: **6**

Question 28

one move tracked correctly	M1
column 0, row 3 cao	A1

Answer: **column 0, row 3**

Question 29

pig cao	B1

Answer: **pig**

Question 30

13 + 5 = 18 seen	M1
16 cao	A1

Answer: **16**

Question 31

2 cao	B1

Answer: **2**

Question 32

triangle cao	B1

Answer: **triangle**

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