6.2 Shape, Position and Direction: 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 0, row 1 (columns go across, rows go up). It moves 3 squares up, then 1 square down.

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

(2)

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

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

(2)

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

Which toy is between the cat and the duck?

(1)

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4 Stepping stones are numbered 1 to 20. A rabbit stands on stone 13. It hops forward 6 stones, then back 3 stones.

Which stone is the rabbit on now?

(2)

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5 Jack is facing south. Jack makes a quarter turn clockwise.

Which direction is Jack facing now?

(1)

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6 Olu is facing south. Olu makes a half turn.

Which direction is Olu facing now?

(1)

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

Which toy is between the duck and the dog?

(1)

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8 How many edges does a cuboid have?

(1)

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9 Here are some flat shapes: pentagon, octagon, circle, square, pentagon.

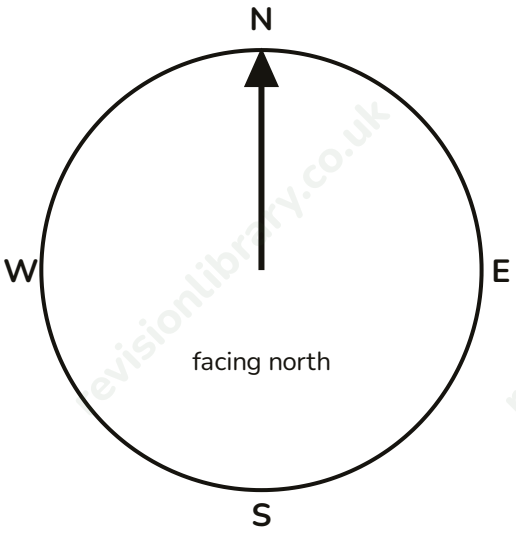
How many of the shapes has 4 sides?

(1)

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10 Look at the compass picture. It shows a child facing north.

For each turn described below, write whether it is a quarter turn, a half turn or a full turn.



(a) The child turns to face south. **(1)**

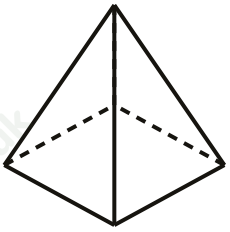
(b) The child turns clockwise to face east. **(1)**

(c) The child turns all the way round and ends up facing north again. **(1)**

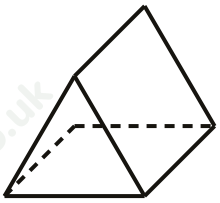
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11 Two 3-D shapes are shown below, labelled (a) and (b).

Write the name of each 3-D shape.



(a)



(b)

(a) What is the name of shape (a)? **(1)**

(b) What is the name of shape (b)? **(1)**

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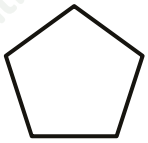
12 I am a flat shape. It has 6 straight sides and 6 corners.

What shape am I?

(1)

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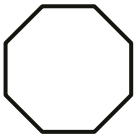
13 Look at the shapes below, then answer each question.



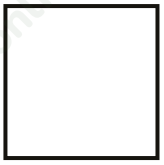
pentagon



hexagon



octagon



square

(a) How many sides does a pentagon have? **(1)**

(b) How many corners (vertices) does a hexagon have? **(1)**

(c) How many sides does an octagon have? **(1)**

(d) How many corners (vertices) does a square have? **(1)**

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Mark scheme · 6.2 Shape, Position and Direction: 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 0, row 3 cao — A1
Answer: **column 0, row 3**

Question 2

one move tracked correctly — M1
column 5, row 4 cao — A1
Answer: **column 5, row 4**

Question 3

hen cao — B1
Answer: **hen**

Question 4

13 + 6 = 19 seen — M1
16 cao — A1
Answer: **16**

Question 5

west cao — B1
Answer: **west**

Question 6

north cao — B1
Answer: **north**

Question 7

bird cao — B1
Answer: **bird**

Question 8

12 cao — B1
Answer: **12**

Question 9

1 cao — B1
Answer: **1**

Question 10

(a) half turn cao — B1
(a) Answer: **half turn**
(b) quarter turn cao — B1
(b) Answer: **quarter turn**
(c) full turn cao — B1
(c) Answer: **full turn**

Question 11

(a) square-based pyramid cao (accept 'pyramid') — B1
(a) Answer: **square-based pyramid**
(b) triangular prism cao (accept 'prism') — B1
(b) Answer: **triangular prism**

Question 12

hexagon cao — B1
Answer: **hexagon**

Question 13

(a) 5 cao — B1
(a) Answer: **5**
(b) 6 cao — B1
(b) Answer: **6**
(c) 8 cao — B1
(c) Answer: **8**
(d) 4 cao — B1
(d) Answer: **4**

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