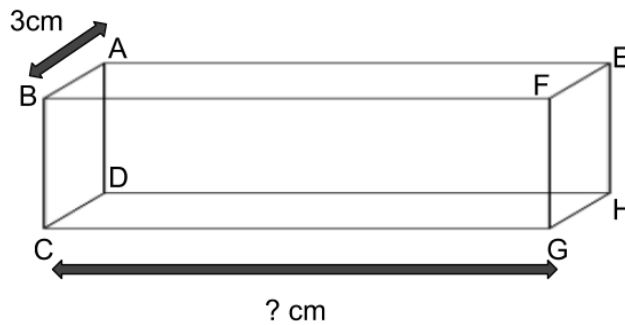


1

Look at the cuboid below.



ABCD is a square with each side measuring 3cm. The volume of a cuboid with ABCD as its base is 99cm^3 .

What is the length of line CG?

- A 9cm B 11cm C 33cm D 3cm E 7cm

2

Which of the following correctly shows “seven and three quarters” as a decimal?

- A 7.34 B 7.75 C 7.3 D 7.8 E 7.25

3

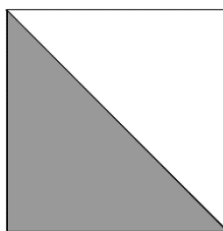
Three vertices of a square are at (4, 5), (8, 1) and (8, 5).

What are the coordinates of the 4th vertex?

- A (4, 8) B (1, 4) C (4, 1) D (5, 4) E (8, 8)

4

Look at the shape below.
It is made up of a square and triangles.



The area of the shaded part is 12.5cm^2 .

What is the perimeter of the square?

- A 12.5cm B 25cm C 50cm D 20cm E 10cm

For question 5, you have to **write your answers** on the probability line below.

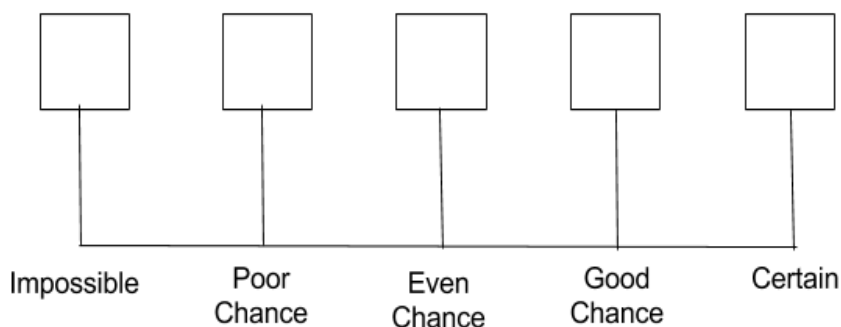
5

Look at the 6 number cards below.



The cards are placed in a box and shaken. A card is chosen at random. Place letters A–E on the probability line to show how likely each event is.

- A: The number is a square number**
B: The number is 5 or less
C: The number is a multiple of 1
D: The number is a triangular number
E: The number is a negative number



Read the **whole** passage carefully, then answer the questions that follow.

The Amazing Phil

1. Sasha had simply wanted to get out of the car and stretch her legs. When she and her mum
2. drove up to the ancient-looking petrol station, neither of them was prepared to come face to
3. face with a vicious dinosaur. The sculpture loomed 20 metres over the car. It was a T. rex,
4. and the green paint was peeling from its front legs, which dangled in the air. Sasha's mum
5. wasn't sure what to make of the whole thing. "I wonder who created this," she said, shading
6. her eyes from the bright sun.

7. "I did," said a shaky voice nearby. Sasha turned around to see an elderly man propped up on
8. a cane. He steadied himself and pointed one finger up toward the T. rex sculpture. "He's the
9. Amazing Phil," the man said. "I built him in 1955, right after I opened the petrol station. He
10. brought in a crowd for a long time, back when people didn't drive so fast." The man's
11. weathered face broke into a soft smile.

12. "It's a great sculpture," Sasha's mum half lied. "I like the colours. So, what's your name?" "My
13. name's Phil, too," said the man. He leaned back on his cane. "My wife is inside. She just
14. made a pecan pie. Do you ladies like pie?"

15. Sasha looked at her mum. Her mum looked up at the dinosaur and then gazed up the road
16. for a few awkward seconds. Then she smiled and looked at Phil. "Pecan pie is our favourite,"
17. she replied, closing the car door behind her.

1

Where does the story take place?

- A At a swimming pool
- B At a supermarket car park
- C At an old petrol station
- D In a school library
- E On a boat at sea

2

Why does the author describe the T. Rex sculpture in detail in the first paragraph?

- A To create a sense of surprise and atmosphere
- B To show that Sasha is frightened of dinosaurs
- C To explain why the petrol station is closed
- D To describe a famous museum exhibit
- E To show that the sculpture is brand new

3 What does Phil's description of the sculpture tell us about him?

- A He is embarrassed about building it
- B He wishes he had built something different
- C He is proud of his creation and its history
- D He is angry that fewer people visit now
- E He is planning to repaint it

4 How does Sasha's mum react when she first sees the sculpture?

- A She is delighted and takes a photograph
- B She drives away immediately
- C She is unsure what to think of it
- D She recognises it from a history book
- E She asks Sasha to draw it

5 What does the last paragraph suggest about Sasha's mum?

- A She dislikes pecan pie
- B She is in a hurry to leave
- C She decides to be kind and accept Phil's invitation
- D She is still nervous about the sculpture
- E She sends Sasha inside alone

Answers**Maths**

- 1) B 11cm
- 2) B 7.75
- 3) C (4, 1)
- 4) D 20cm
- 5) E, A, D, B, C (Impossible → Certain)

English

- 1) C
- 2) A
- 3) C
- 4) C
- 5) C