

1

There are street lights every 6 m along a straight road. The first light is at the start of the road.

What is the distance between the first and sixth street light?

- A** 24 m **B** 30 m **C** 36 m **D** 42 m **E** 18 m
-

2

A number is a palindrome if it reads the same forwards and backwards. For example, 232 and 16061 are palindromes.

What is the biggest palindrome which is less than 500?

- A** 484 **B** 494 **C** 499 **D** 490 **E** 488
-

3

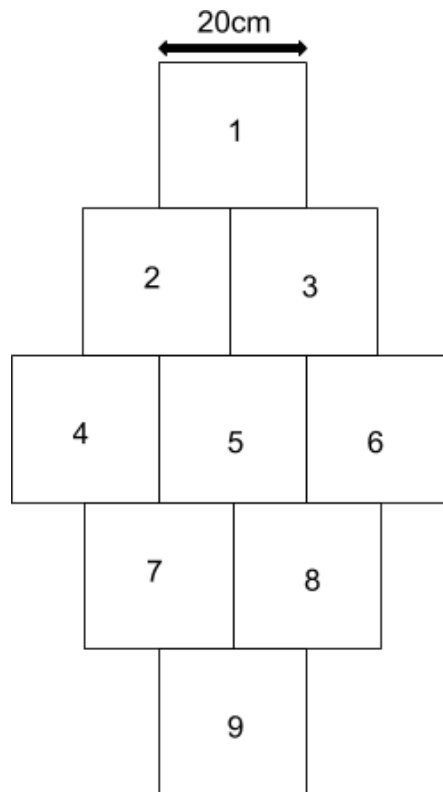
Clare had seventy two coins in her purse: twelve 10p coins, twenty one 5p coins, sixteen 2p coins and twenty three 1p coins. She swaps them all for 20p coins at the bank.

How many 20p coins did she get?

- A** 12 **B** 16 **C** 14 **D** 18 **E** 10
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4

A hopscotch grid is made up of identical squares, each with a side length of 20 cm. The squares are numbered 1 to 9.



What is the total area of the squares which have odd numbers written in them?

- A** 1600 cm² **B** 2400 cm² **C** 2000 cm² **D** 1200 cm² **E** 2800 cm²

For question 5, you have to **write your answer** in the space provided.

5

Using the same hopscotch grid from question 4 (squares numbered 1–9, each with a side length of 20 cm), answer the question below.

What is the perimeter of the whole hopscotch grid?

_____ cm

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

Natural Entertainment

1. When the days grew long in the middle of summer, Sophie liked to go to the park, stretch
2. out on her back, and watch the languid clouds. Sometimes the clouds looked like animals,
3. everyday objects, or people she knew. One thing was certain—clouds never stayed in place
4. for long.

5. One day, Sophie saw a cloud that looked like a dragon. After a few minutes, it changed from a
6. standing dragon to a flying dragon. Then it appeared to change direction. Another cloud floated
7. in to mix with it, and the dragon turned into a frolicking penguin with a hat. Then it turned into a
8. sitting dog, then a barking dog, then an alligator. “This is better than TV!” Sophie proclaimed.

9. Mr. Stirling, the maths teacher at Sophie’s school, was flying a kite with his children at the other
10. end of the park. He recognised Sophie’s voice. He gave the spool of kite string to his daughter
11. and came over to greet Sophie.

12. “Hi, Mr. Stirling!” Sophie said. “Look at those clouds. They keep changing! First they looked like
13. a dragon, then a penguin, then a dog, and now an alligator!”

14. Mr. Stirling looked up. “An alligator?” he said. “That looks like a speedboat to me.” Sophie
15. looked again. He was right! “How do clouds know how to make so many shapes?” “It’s a
16. mystery,” answered Mr. Stirling. “Definitely better than TV, though.” “Definitely,” Sophie said, as
17. the speedboat turned into a chicken.

For these questions you have to **write your answers**, neatly, in the boxes provided.

- 1** Look at lines 1–4. What does Sophie like about watching the clouds? Give one detail from the text.

- 2** Look at lines 5–13. How does Sophie feel about the changing clouds? Give two details from the text.

3 Look at lines 9–11. Which word in these lines tells us that Mr. Stirling identified Sophie by the sound of her voice?

4 Which one part of speech are the following words as they appear in the passage?
on (line 2), in (line 3), into (line 7), at (line 9)

5 Which part of speech is 'languid' as it appears in the passage? (line 2)

Answers

Maths

- 1) B 30 m
- 2) B 494
- 3) C 14
- 4) C 2000 cm²
- 5) 320 cm

English

- 1) Accept any valid detail, e.g.: the clouds kept changing shape / they never stayed in place / sometimes they looked like animals, objects, or people she knew
- 2) She is delighted / entertained by them: she proclaimed “This is better than TV!” / she eagerly listed the shapes she saw to Mr. Stirling (accept any two relevant details from lines 5–13)
- 3) recognised
- 4) Prepositions
- 5) Adjective