

1

Look at the first five numbers of a sequence below.

1 4 10 19 31

What is the sixth number in the sequence?

A 40

B 43

C 46

D 49

E 52

2

Look at the 5 numbers below.

18 19 20 21 22

Select the option that correctly matches each statement to one of the numbers.
(Each number can only be used once.)

- Factor of 42 _____
- Prime number _____
- Multiple of 9 _____
- $\frac{2}{5}$ of 55 _____

Which option correctly matches all four statements?

A 21,19,18,22

B 18,19,21,22

C 21,19,20,22

D 22,19,18,21

E 21,20, 18, 22

3

Look at the two numbers below.

0.4999 0.5

Multiply the smaller of these two numbers by 1000. What is the answer?

A 4.999

B 49.99

C 499.9

D 4999

E 499

4



STIRLING TUITION

Each quarter of a basketball match lasts 16 minutes.

There is a 10-minute break between each of the quarters.

The basketball match starts at 15:00.

At what time did the game end?

A 4:04 pm **B** 4:24 pm **C** 4:34 pm **D** 4:44 pm **E** 5:04 pm

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

5

A ream of paper contains 300 sheets and weighs 750 g.

How many sheets of paper weigh 3.75 kg?

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

Time to Move

1. Sophie, James, and Ethan sat on Uncle Trevor's living room floor. Uncle Trevor was moving
2. across town, and the kids were trying to decide how to work together to pack their uncle's
3. books.
4. "James, you can start putting the books into boxes," Sophie directed.
5. "No," James argued. "I think Ethan should do that. I'm the strongest, so it's best if I carry the
6. boxes to the truck after Ethan has packed them."
7. "I don't want to pack them," grumbled Ethan. "I want to watch TV."
8. "Too bad, Ethan," proclaimed Sophie. "Your job is to put the books into the boxes. Then I'll
9. tape the boxes shut, and James will carry them out."
10. "I have a better idea," Ethan declared.
11. "Ethan!" Sophie and James both said as they stood up, annoyed with their brother. "We know
12. you want to watch TV," Sophie said, "but Uncle Trevor needs your help today."
13. "I know!" Ethan responded. "I want to help. How about if you put the books into the boxes and I
14. close the boxes—but not with tape?" Ethan then dragged a box of books to the centre of the
15. living room. He folded down the flaps on the top of the box in clockwise order and finished by
16. tucking half of the last one under the first one. Then he tipped the box over on its side so the
17. flaps stayed shut, and nothing fell out. "See?" Ethan exclaimed.
18. Sophie crossed her arms and raised her eyebrows. "Fine. I guess I'll pack, then," she said.
19. Ethan smiled. He clicked the TV remote and waited for his sister to finish filling a box.

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

1

Look at lines 13–17. Describe how Ethan closed the box without using tape. Give at least two steps.

2

Look at lines 10–17. What does Ethan's behaviour suggest about his personality? Give one detail from the text to support your answer.

3 Look at line 7. What does the word “grumbled” suggest about how Ethan was feeling at that moment?

4 Which part of speech are the following words as they appear in the passage?
and (line 2), **as** (line 11), **but** (line 14), **so** (line 16)

5 Which part of speech is ‘clockwise’ as it appears in the passage? (line 15)

Answers

Maths

- 1) C 46
- 2) A 21, 19, 18, 22
- 3) C 499.9
- 4) C 4:34 pm
- 5) 1500

English

- 1) Any two from: he folded down the flaps in clockwise order; he tucked half of the last flap under the first one; he tipped the box on its side / the flaps stayed shut and nothing fell out
- 2) Accept any valid response, e.g.: Ethan is resourceful / clever / inventive — he found a way to seal the box without tape; “I have a better idea” (line 10) shows he had already planned a solution / his demonstration proves he thought ahead rather than simply complaining
- 3) Accept any valid response suggesting Ethan was reluctant / unhappy / unwilling, e.g.: the word implies he spoke in a low, complaining tone, showing he did not want to help; it suggests he was disgruntled and trying to resist being given a task
- 4) Conjunctions
- 5) Adjective