

1

How many triangular numbers are there below 30?

A 4

B 5

C 6

D 7

E 8

1, 3, 6, 10, 15, 21, 28

2

Look at the calculations below

$$b \div 4.2 = 3$$

12.6

$$123 - c = 17.9$$

105.1

$$\begin{array}{r} 4.2 \\ \times 3 \\ \hline 12.6 \end{array}$$

Which option shows the correct values of b and c?

A $b = 12.6, c = 105.1$

B $b = 16.2, c = 141.9$

C $b = 7.2, c = 105.1$

D $b = 12.6, c = 140.9$

E $b = 8.4, c = 140.9$

$$\begin{array}{r} 123.6 \\ - 17.9 \\ \hline 105.1 \end{array}$$

3

How many lines of symmetry does a rectangle have?

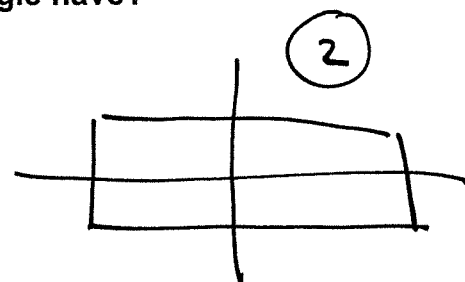
A 0

B 1

C 2

D 3

E 4



4

A square has an area of 12 cm^2 .

A pupil is estimating the length of one side.

Which is the best estimate for the length of one side?

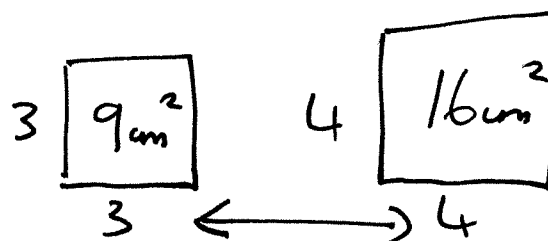
A Between 1 cm and 2 cm

B Between 2 cm and 3 cm

C Between 3 cm and 4 cm

D Between 4 cm and 5 cm

E Between 5 cm and 6 cm



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

5

A forest has 180 squirrels.

One of the squirrels gives birth to a litter.

There are now 45% more squirrels.

How many squirrels are there now? $\times \frac{45}{100}$ of 180

261 squirrels

$$\begin{array}{r}
 180 \\
 \times 1.45 \\
 \hline
 90 \\
 720 \\
 \hline
 261
 \end{array}$$

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

In the Cafeteria

1. When Tom brought his lunch to her table, Lindsey knew something
2. was up. "Your friends are over there," she said, nodding toward the other side of the cafeteria
3. "I'd rather sit here today," Tom replied. He took a bite out of his pizza and looked around the
4. cafeteria. Lindsey stared straight ahead, silent. "So, what's new?" Tom asked. Lindsey picked
5. at her food. "Look, Lindsey, I'm sorry," Tom said. "I was just kidding about your shoes."

6. "I can't believe you said that in front of everyone," Lindsey said. Anger rose inside her, but she
7. kept control of herself. "My mom bought me these shoes because she thought I would like
8. them. Now everyone's going to call me 'Sparkle Toes' forever." She pushed her feet beneath
9. her backpack, which she had placed on the floor. She tried her best to hide the silver shoes
10. with their glittery pink laces. "I thought we were friends," she said, looking down.

11. "We are friends," Tom said. "I was just trying to be funny. How can I make it up to you?" Finally,
12. Lindsey realized that Tom meant what he said. Plus, she had an idea. She began unlacing her
13. shoes. "Give me your shoes. You wear mine for the rest of the day," she said. Then she
14. glanced at the second piece of pizza on Tom's plate. "And give me your other slice of pizza.
15. Then we'll be even."

16. Tom nodded and smiled. "That seems fair," he said, pushing his plate toward Lindsey with one
17. hand and reaching down to untie his laces with the other.

1

Which statement best expresses the main idea of the passage?

- A Tom wants to share Lindsey's lunch with her.
B Lindsey refuses to accept Tom's apology.
C A boy finds a way to make amends with a friend he has hurt.
D Friends should always sit together in the school cafeteria.
E Lindsey is upset that her mother chose her shoes without asking.

2

What does Tom do first after sitting down at Lindsey's table?

- A He apologises for making fun of her shoes.
B He asks Lindsey what is new.
C He takes a bite of his pizza and looks around the cafeteria.
D He pushes his plate towards Lindsey.
E He begins to untie his laces.

3

Which of the following is NOT supported by the passage?

- A Lindsey's shoes had glittery pink laces.
- B Lindsey's mother bought the shoes for her.
- C Lindsey tried to hide her shoes under her backpack.
- ☒ D Tom apologised before he sat down at Lindsey's table.
- E Tom had pizza on his plate.

4

When Lindsey said "Then we'll be even," _____.

- A Tom refused and walked back to his own table.
- ☒ B Tom nodded, smiled, and said it seemed fair.
- C Lindsey immediately put her own shoes back on.
- D Tom gave Lindsey just the pizza and kept his shoes.
- E Lindsey decided not to swap shoes after all.

5

What does Lindsey's decision to make Tom wear her shoes suggest about her character?

- A She wants to embarrass Tom in front of the whole cafeteria.
- ☒ B She is creative and fair when resolving a disagreement.
- C She is too angry to think of a reasonable solution.
- D She does not truly care about her friendship with Tom.
- E She regrets asking Tom to make it up to her.