

1

What is the difference between 70% of 40 and $\frac{3}{4}$ of 280?

- A 238 B 168 C 182 D 154 E 210
-

2

Jack is delivering 3 parcels.

Two of the parcels weigh half of the other parcel.

If the 3 parcels altogether weigh 6kg what is the weight of one of the smaller parcels?

- A 1.5 kg B 2 kg C 1 kg D 3 kg E 0.75 kg
-

3

Terry drove to Whitley Bay.

He spent 56 minutes there.

Terry left Whitley Bay at 6:39 pm.

When did he arrive in Whitley Bay?

- A 5:44 pm B 5:39 pm C 6:13 pm D 4:43 pm E 5:43 pm
-

4

Look at the calculation below.

$$1230 \times 456 = 560880$$

Using the above equation what is answer to the equation below?

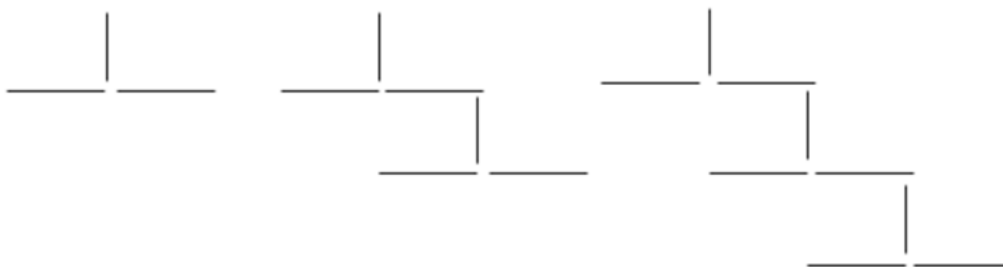
$$45.6 \times 123 = \underline{\hspace{2cm}}$$

- A 5608800 B 560880 C 56088 D 5608.8 E 560.88
-

For question 5, you have to **write your answer** in the box below.

5

Look at the following patterns made from sticks.



Pattern 1

Pattern 2

Pattern 3

There are three sticks in Pattern 1.

How many sticks are there in Pattern 7?

$\underline{\hspace{2cm}}$ sticks

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

Eggciting Stuff!

1. John, Aaron, and Lewis met after work to begin the plans for their group science project.
2. Their project was to find a way to protect an egg from breaking as it was dropped from a two-story building. John and Lewis were beavering away with their materials, which included a
3. pile of newspapers, some bubble wrap, and rubber bands. John was tearing newspaper into
4. strips and watching Aaron doodle in a notebook. Finally, he couldn't stay quiet any longer.
- 5.
6. "Aaron, when are you going to help us?" he asked. "We need to get this project done today."
7. Lewis reached across the table for another rubber band to knit into the rubber mat he was
8. trying to make. "Yeah, Aaron," he said. "Could you put down your notebook of drawings and
9. help us?" Aaron was a good friend, but he didn't seem to give science the same attention
10. that Lewis and John did. His mind always seemed to be off somewhere else—mainly in his
11. drawing book.
12. Aaron looked up at a snail's pace, making John and Lewis think he may not have heard them
13. at all. Then he turned the page toward them. Aaron had sketched a diagram that showed an
14. egg in the centre of a layer of newspaper and bubble wrap. The egg had been wrapped with
15. several rubber bands, which crisscrossed each other to make a thick layer of padding. John
16. and Lewis were impressed.
17. "I was just thinking," Aaron said. "I always get my best ideas when drawing, do you think it'll
18. work?"

1

Why were John and Lewis frustrated with Aaron at the beginning?

- A He was using the wrong materials
- B He was doodling instead of helping
- C He did not understand the task
- D He wanted to work alone
- E He was slowing them down on purpose

2

What does Aaron's diagram show about his idea?

- A He plans to drop the egg from a lower height
- B He wants to use fewer materials than the others
- C He has carefully planned how to protect the egg
- D He is unsure how to complete the project
- E He wants John to change his design

3 What can the reader infer about Aaron's way of working?

- A He prefers to finish tasks quickly
- B He works best when he is under pressure
- C He often thinks through ideas before starting
- D He copies ideas from his friends
- E He does not enjoy science projects

4 Which of these is a fact from the passage?

- A Aaron's idea is the best solution
- B John and Lewis dislike working with Aaron
- C The egg is wrapped with rubber bands and padding
- D The project will definitely be successful
- E Aaron has completed similar projects before

5 What is the main message of the story?

- A Science projects should be completed quickly
- B Drawing is better than practical work
- C Different ways of working can still lead to good ideas
- D Only teamwork leads to success
- E Materials are more important than planning



Answers

Maths

- 1) C 182
- 2) A 1.5 kg
- 3) E 5:43 pm
- 4) D 5608.8
- 5) 21

English

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