

1

Boxes A, B and C contain chocolates.

There are 3 types of chocolate: dark, milk and white.

Box A: 7 Dark, 5 Milk, 2 White $7+5+2=14$ Box B: 3 Dark, 6 Milk, 5 White $3+6+5=14$ Box C: 6 Dark, 4 Milk, 4 White $6+4+4=14$

$$7/14 = \frac{1}{2} = 50\%$$

$$3/14 \times$$

$$6/14 \times$$

I choose a chocolate at random from each box.

For one of the boxes the chance of picking a Dark chocolate is an even chance.

Which box is it?

A Box A

B Box B

C Box C

D Box B or C

E Box A or C

2

A bag contains 230g of apples and costs 65p. Another bag contains 240g of oranges and costs £1.85.

$$\begin{array}{r} 365 \\ \times 7 \\ \hline 455 \end{array}$$

What is the total cost of 7 bags of apples and 4 bags of oranges?

$$\begin{array}{r} 365 \\ \times 7 \\ \hline 455 \end{array}$$

$$\begin{array}{r} 1.85 \\ \times 4 \\ \hline 7.40 \\ + 4.55 \\ \hline 11.95 \end{array}$$

A £11.00

B £10.95

C £11.95

D £12.00

E £11.50

3

Each bag of apples weighs 230g.

What is the total weight of apples in 7 bags?

$$\begin{array}{r} 230 \\ \times 7 \\ \hline 1610 \end{array}$$

$$1610 \div 1000 = 1.610$$

$$1\text{kg} = 1000\text{g}$$

A 1kg 400g

B 1kg 500g

C 1kg 550g

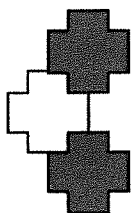
D 1kg 610g

E 2kg 100g

4

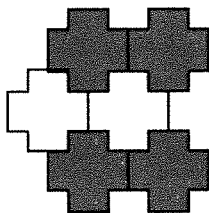
Look at the pattern below.
It is made up of white and black tiles.

1	2	3	4	5	6
3	6	9	12	15	18



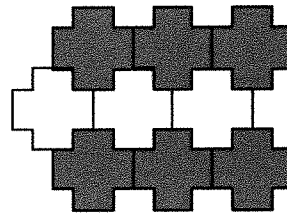
3

Pattern 1



6

Pattern 2



9

Pattern 3

$$\begin{array}{r}
 18 \\
 18 \\
 12 \\
 + 9 \\
 \hline
 54
 \end{array}$$

What is the total number of all the tiles from pattern 3 to pattern 6?

A 42 tiles

B 48 tiles

C 54 tiles

D 60 tiles

E 36 tiles

For question 5, you have to **write your answers** in the spaces provided.

5

A map has the following scale: 2 centimetres represents 5 kilometres.

A mountain top and a restaurant are 8 centimetres apart on the map.

What is the actual distance between them?

Answer: 20 km

$$\begin{array}{l}
 2 \text{ cm} = 5 \text{ km} \\
 \times 4 \rightarrow 8 \text{ cm} = 20 \text{ km} \times 4
 \end{array}$$

The actual distance between a shopping centre and the bus station is 85 kilometres.

How far apart would they be on the map?

Answer: 34 cm

$$\begin{array}{l}
 2 \text{ cm} = 5 \text{ km} \\
 \times 17 \rightarrow 34 \text{ cm} = 85 \text{ km} \times 17
 \end{array}$$

$$\begin{array}{r}
 17 \\
 \times 2 \\
 \hline
 34
 \end{array}$$

$$\begin{array}{r}
 17 \\
 5 \overline{) 85} \\
 \hline
 34
 \end{array}$$

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^①. 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^② with a hat. Then it turned into a
8. sitting dog^①, 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^③ 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.
15. Mr. Stirling looked up. "An alligator?" he said. "That looks like a speedboat to me." Sophie
16. looked again. He was right! "How do clouds know how to make so many shapes?" "It's a
17. mystery," answered Mr. Stirling. "Definitely better than TV, though." "Definitely," Sophie said, as
18. the speedboat turned into a chicken.

1 Which one did Sophie NOT see in the clouds?

- ☒ A a tiger
☐ B a dog
☐ C a chicken
☐ D a dragon
☐ E a penguin

2 Which statement best expresses the main idea of the passage?

- ☒ A Penguins can turn into alligators.
☒ B Mr. Stirling visited the park with his children.
☒ C Clouds can stir the imagination.
☒ D Everyone should watch television.
☒ E Kite flying is the best outdoor activity.

5/

3

Why did Mr. Stirling come to the park?

- A to meet with his students
- ☒ B to fly a kite with his children
- C to look at clouds
- D to walk his dog
- E to have a picnic

4

Which idea goes with the story and is also suggested by the title?

- ☒ A Kite flying is a way to have fun without technology.
- ☒ B Watching clouds change shape is fun.
- ☒ C Dogs and alligators get along very well.
- ☒ D Watching TV is naturally entertaining.
- ☒ E Teachers enjoy flying kites at weekends.

5

What does Sophie's exclamation "This is better than TV!" suggest about her?

- ☒ A She dislikes going to the park.
- ☒ B She finds watching television more exciting than being outdoors.
- ☒ C She is bored by the clouds.
- ☒ D She finds the clouds more entertaining than television.
- ☒ E She wants to go home and watch TV instead.