

1

Look at the patterns below.



Pattern 1



Pattern 2



Pattern 3

They are made up of hexagonal (6 sided) black and white tiles. The first 3 patterns of the sequence are shown.

How many black tiles in total are needed to make the sixth pattern?

- A 12 tiles B 15 tiles C 18 tiles D 21 tiles E 24 tiles

2

Look again at the pattern in Q1.

What is the difference between the total of white tiles in pattern 5 and the total of white tiles in pattern 2?

- A 8 tiles B 11 tiles C 14 tiles D 17 tiles E 20 tiles

3

A full bottle of milk contains 123 ml.

How many litres of milk are in 15 full bottles?

- A 0.845 litres B 1.645 litres C 1.845 litres D 2.045 litres E 18.45 litres

4

Chloe has two part time jobs on a Sunday.

She delivers newspapers from 07:43 to 1:26 pm.

She then goes to work at a local café from 1:40 pm till 15:37.

How long does she work on a Sunday in total, not including her travel time?

A 6 hrs 50 mins **B** 7 hrs 20 mins **C** 7 hrs 40 mins **D** 8 hrs 00 mins **E** 8 hrs 20 mins

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

5

A holiday to London costs £470.

However, due to demand its price is increased by 25%.

What is the new price of the holiday?

£ _____

In this exercise there are some mistakes with **punctuation** or use of **capital letters**. On each numbered line there is either **one** mistake or **no** mistake. Find the group of words with the mistake in it and **circle its letter** below. **If there is no mistake, mark N.**

Punctuation Exercise

1 The doctor's surgery was closed on Saturday, so Ryan had to wait until the following Monday for his appointment

A B C D

2 Mrs Taylor said to her class "Bring in their permission slips by Friday, as the school trip to the museum was the next week."

A B C D

3 The old oak tree which had stood in the village square for three hundred years) was struck by lightning during last night's storm.

A B C D

4 For her birthday Emma received a new bicycle a helmet, some book's and a voucher for her favourite clothes shop.

A B C D

5 Every summer the family drove through France, stopping at small villages to sample the local food and explore the markets.

A B C D

Answers

Maths

- 1) D 21 tiles [IMAGE required: Q1 pattern]
- 2) C 14 tiles [IMAGE required: Q2 pattern]
- 3) C 1.845 litres
- 4) C 7 hrs 40 mins
- 5) £587.50

English

- 1) D
- 2) A
- 3) A
- 4) C
- 5) N