

# REASONING

## 9ER17

First name \_\_\_\_\_

Last name \_\_\_\_\_

School \_\_\_\_\_

Class \_\_\_\_\_

Date of birth ○○ ○○ ○○○○

Date of test ○○ ○○ (2017)

Total score  (maximum 20)



150311



Llywodraeth Cymru  
Welsh Government

1



Each advert costs  
**£7.25** for every  
thousand people watching

One day, 180 000 people watched the television channel from 6pm to 7pm.

During this time there were 15 adverts.

Show that a total of £19 575 was paid for these adverts.

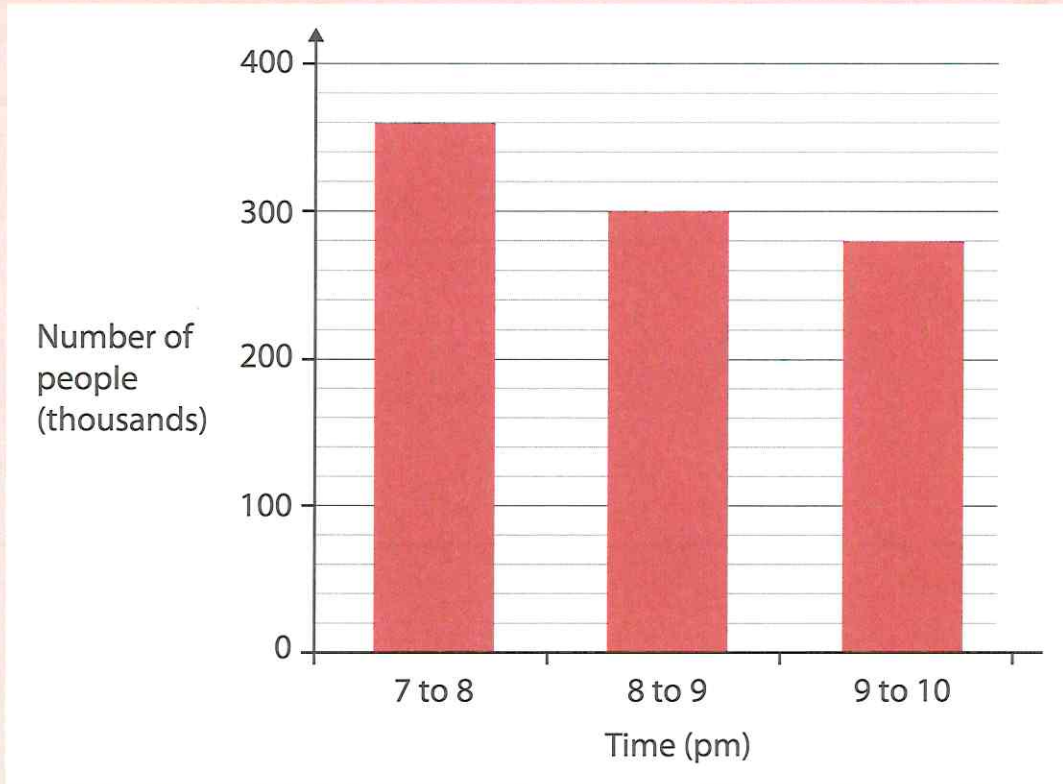
1m

Look at the chart and table in the box on the next page.

Altogether, how much was paid for adverts from 7pm to 10pm?

3m

### Number of people watching the television channel per hour



### Number of adverts shown per hour

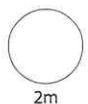
24	20	16
7pm to 8pm	8pm to 9pm	9pm to 10pm

The television channel is paid an average of £250 000 per 24 hours.

To the **nearest million pounds**, how much does the television channel get from adverts **in one year**?



£                      million



TOTAL



**5** Facts:

- About 10% of people are left-handed.
- About 56% of left-handed people are boys or men.



There are about 3 100 000 people in Wales.

How many of them are likely to be left-handed boys or men?

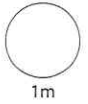
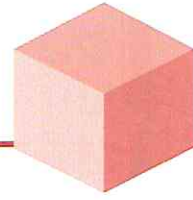
A large rectangular area with a red border, intended for a student's answer. In the top-left corner, there is a small icon of a notepad with a pencil. In the bottom-right corner, there is a smaller red-bordered box containing the text "left-handed boys or men".



6 Pupils have centimetre cubes that connect to make shapes.

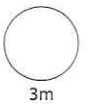
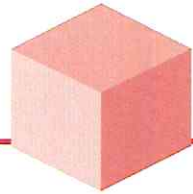
Rhian wants to make a solid cube, 5cm by 5cm by 5cm.

Show why she needs a total of 125 centimetre cubes.



Marc wants to make a 5cm by 5cm by 5cm cube but the **inside** will be **hollow**.

What is the smallest number of centimetre cubes that he needs?



TOTAL



