

**1**

If  $a = 1$ ,  $b = 2$  and  $c = 3$ , what is the value of  $b^3 + c$ ?

A 11

B 9

C 36

D 28

E 42

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**2**

A pupil calculates that  $16 \times 32 = 512$ .

Using this fact, what is the value of  $512 \div 16$ ?

A 16

B 32

C 64

D 24

E 48

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**3**

Over six hours, Tony counted the cars that passed his home each hour:

9, 3, 5, 7, 8, 10.

What is the mean number of cars per hour?

A 3

B 5

C 7

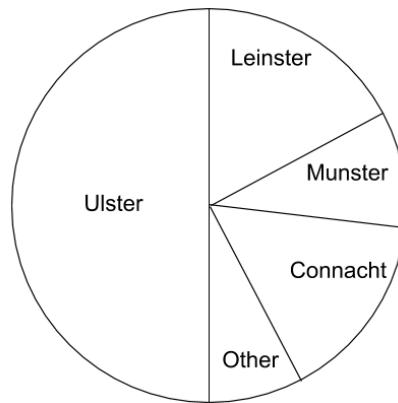
D 9

E 10

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4

The pie chart below shows **90 adult's** favourite rugby team.



The number of adults who like Munster is 8. The number of adults who like Leinster is 16. The number of adults who like Connacht is 7 more than Munster.

**How many adults like other?**

- A 6    B 5    C 7    D 9    E 10
- 

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

5

Look at the isosceles triangle below.



**What is the value of  $y$ ?**

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In this exercise you have to choose the **best** word, or **group of words**, to complete each numbered line so that the passage makes sense and is written in correct English. Choose the best answer and **mark its letter on your answer sheet**.

## Grammar Exercise

1 The scientist discovered that       
A B C D E  
of the two experiments had produced accurate results.

2 She would have won the race      she  
A B C D E  
had bought the new bicycle.

3 The firefighter climbed       
A B C D E  
up the ladder to rescue the trapped child.

4 The storm had passed;       
A B C D E  
the streets were still flooded the next morning.

5 The athlete trained       
A B C D E  
every day to prepare for the championship.



## Answers

### Maths

- 1) A 11
- 2) B 32
- 3) C 7
- 4) A 6
- 5)  $43^\circ$

### English

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