# **SPEED TEST**

- Time allowed is 20 minutes.
- There are 20 questions to try to answer in the time allowed.
- *Three* marks are awarded for every correct answer written on the answer grid. An answer is marked either correct or incorrect so no partial marks are given.
- Marks are not awarded for correct answers that have not been written on the answer grid, so make sure you write your answers on this. Units can be ignored.
- You will have to decide your team's strategy for this speed test and can organise yourselves to answer the questions however you want as quickly as possible.

## **Speed Test**

#### Question 1

What is the value of 9-8+6-5+4-3+2-1?

#### Question 2

In a class of 30 pupils, 60% are boys. How many girls are in the class?

#### **Question 3**

I buy 3 CD's at £5.29 each and pay with a £20 note. Hoe much change should I get?

#### **Question 4**

What is the smallest number of coins needed to make up the amount of change in question 3?

### **Question 5**

What is 
$$\frac{1}{3}$$
 of 45 +  $\frac{1}{5}$  of 55 +  $\frac{1}{13}$  of 65?

#### **Question 6**

In a class of 30 pupils, 20 pupils like rock music, 15 like rap music, including 10 who like both. How many do not like either rock or rap music?

#### **Question 7**

We know that  $9 \times 8 = 72$ . What is the value of  $7200 \div 8000$ ?

### **Question 8**

What is the value of  $\frac{2}{3} + \frac{5}{7}$ ?

### **Question 9**

What is the value of  $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8}$  ?

### **Question 10**

What is 20% of 20% of 350?

### Question 11

A train arrives in York at 15:05 after a journey of 2 hours 15 minutes from London. At what time did the train leave London?

#### **Question 12**

3 choc boxes and 2 drinks cost £3.40 while 2 choc boxes and 3 drinks cost £3.10. How much will 1 choc box and 1 drink cost?

### **Question 13**

I have to run 1500 metres in 10 minutes for my gold award. I run at an average of 3m/s. By how many seconds do I succeed or fail in my quest for a gold award?

#### **Question 14**

You are told that x = 2 and y = 3. What is the value of  $2x^2 + 3y^2$ ?

### **Question 15**

What is  $\frac{1}{2}$  of  $\frac{1}{3}$  of 96?

### **Question 16**

What is the sum of all the square numbers greater than 100 but less than 200?

### **Question 17**

We know that 11<sup>2</sup> is 121. What is the value of 111<sup>2</sup>?

### **Question 18**

What 3-digit number is both a square number and a cube number?

### **Question 19**

It takes 7.5 hours to fly to New York. The return flight takes 90% of the outward flight time. How long is the return flight?

### **Question 20**

A computer priced at £325 has its price increased by 25%. A month later it is reduced by 20% in the sale. What is the sale price?

# **Speed Test Answer Sheet**

| School Name:                                | School Number |
|---|---------------|
| Question1                                   | Question11    |
| Question2                                   | Question12    |
| Question3                                   | Question13    |
| Question4                                   | Question14    |
| Question5                                   | Question15    |
| Question6                                   | Question16    |
| Question7                                   | Question17    |
| Question8                                   | Question18    |
| Question9                                   | Question19    |
| Question10                                  | Question20    |
| Three marks are awarded per correct answer. |               |
| Total marks:                                |               |