## SPEED TEST

- Time allowed: 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

How many 4 digit numbers can be made using the digits $3,6,9$ and 9 exactly once each?

## Question 2

What is the third largest number that can be made by using the digits $2,4,6,8$ exactly once each?

## Question 3

Find $37.5 \%$ of 400.

## Question 4

Find as a fraction in its lowest terms $\frac{1 \times 2 \times 3 \times 4 \times 5}{6 \times 7 \times 8 \times 9 \times 10}$.

## Question 5

What is the smallest positive whole number divisible by $1,2,3,4$ and 5 ?

## Question 6

What is the second smallest positive whole number divisible by $1,2,3,4$ and 5 ?

## Question 7

You are given that $x=4$ and $y=5$. Find $2 x^{2}(x+y)$.

## Question 8

Find the sum of the prime numbers between 30 and 50 .

## Question 9

On a 2 km journey, the first km is travelled at $1 \mathrm{~km} / \mathrm{hr}$. The next is travelled at $2 \mathrm{~km} / \mathrm{hr}$. What is the average speed over the whole journey?

## Question 10

You are given one each of the coins $1 p, 2 p, 5 p$ and $10 p$. How many different amounts of money can be made using some or all of the four coins?

## Question 11

$£ 150$ is increased by $10 \%$ then decreased by $10 \%$. What is the final amount after these changes?

## Question 12

Find $\frac{2}{3}$ of $\frac{1}{2}$ of 165 .

## Question 13

Find the value of $14^{2}-13^{2}$.

## Question 14

Which is bigger, $\frac{10}{13}$ or $\frac{11}{14}$ ?

## Question 15

Three men make a wall in 15 days. Working at the same rate, how long would it take five men to make the same wall?

## Question 16

Two chew bars and a fruit chew cost $£ 1.80$. Two fruit chews and a chew bar cost $£ 2.40$. What is the cost of 9 chew bars and 9 fruit chews?

## Question 17

Find as a fraction in its simplest form $\frac{1}{2}-\frac{1}{3}+\frac{1}{4}-\frac{1}{5}$.

## Question 18

Find the number of minutes in 2.4 hours.

## Question 19

$11^{2}=121$. Find $11^{4}$.

## Question 20

The fraction $\frac{1}{8}$ when expressed as a decimal is 0.125 . Express the fraction $\frac{3}{16}$ as a decimal.

## Speed Test Answer Sheet

School Name:
School Number

| Question1 | Question11 |
| :--- | :--- |
| Question2 | $\underline{\text { Question12 }}$ |
| $\underline{\text { Question3 }}$ | $\underline{\text { Question13 }}$ |
| $\underline{\text { Question4 }}$ | $\underline{\text { Question14 }}$ |
| $\underline{\text { Question5 }}$ | $\underline{\text { Question15 }}$ |
| $\underline{\text { Question6 }}$ | $\underline{\text { Question16 }}$ |
| $\underline{\text { Question7 }}$ | $\underline{\text { Question17 }}$ |
| Question8 | $\underline{\text { Question10 }}$ |
| Question9 | $\underline{\text { Question19 }}$ |

Three marks are awarded per correct answer.
Total marks:

