





## Stage 8 Autumn term 1 - Maths challenge task

5. What is the value of  $\frac{1}{25} + 0.25$ ?
- A 0.29      B 0.3      C 0.35      D 0.50      E 0.65
6. Gill is now 28 years old and is a teacher of Mathematics at a school which has 600 pupils. There are 30 more girls than boys at the school. How many girls are at Gill's school?
- A 270      B 300      C 315      D 330      E 345
7. A distance of 8 km is approximately 5 miles. Which of the following is closest to 1.2 km?
- A 0.75 miles      B 1 mile      C 1.2 miles      D 1.6 miles      E 1.9 miles
8. What is the value of  $\frac{2 + 4 + 6 + 8 + 10 + 12 + 14 + 16 + 18 + 20}{1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10}$ ?
- A 2      B 10      C 20      D 40      E 1024
9. One of the three symbols +, -, × is inserted somewhere between the digits of 2016 to give a new number. For example, 20 - 16 gives 4. How many of the following four numbers can be obtained in this way?
- 36      195      207      320
- A 0      B 1      C 2      D 3      E 4
10. A square is folded exactly in half and then in half again. Which of the following could not be the resulting shape?
- A       B       C       D       E 