Stage 8 Summer half term 1 – Task 2 - Maths Challenge homework task.

To be completed in your maths book with all working out shown.

1. Which of the following is closest to zero?

    A $6 + 5 + 4$ B $6 + 5 - 4$ C $6 + 5 \times 4$ D $6 - 5 \times 4$ E $6 \times 5 \div 4$

2. What number is twenty-one less than sixty thousand?

    A 59 979   B 59 981   C 57 900   D 40 001   E 39 000

3. One lap of a standard running track is 400 m.
   How many laps does each athlete run in a 5000 m race?

    A 4   B 5   C 8   D 10   E $12\frac{1}{2}$

4. In January 1859, an eight-year-old boy dropped a newly-hatched eel into a well in Sweden (apparently in order to keep the water free of insects). The eel, named Åle, finally died in August 2014.
   How many years old was Åle when it died?

    A 135   B 145   C 155   D 165   E 175

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?

    <div align="center">36   195   207   320</div>

    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?