HAMPTON COURT HOUSE

FORTITER IN RE SUAVITER IN MODO

Surname: .... First name: ....

Entrance Examination
Year 5
(to be taken in Y4)

MATHEMATICS

Please read this information before the examination starts.

- This examination is 45 minutes long.

- There are 44 marks in this test.

- Calculators are not allowed.

- Show all your workings clearly. Credit may be awarded for a logical method even if the final answer is incorrect.

- Answer as many questions as you can in the time available. Do not worry if you cannot complete all the questions, as curricula vary from school to school.

1. Write down the answers to these questions.
   You may show your working or work them out in your head.
   a. 5×8

   Answer: _____ [1]

   b. 9×4

   Answer: _____ [1]

   c. $48 - 36$

   Answer: _____ [1]

   d. $99 + 604$

   Answer: _____ [1]

   e. 9×3

   Answer: _____ [1]

   f. 12×9

   Answer: _____ [1]

   g. 56957×10

   Answer: _____ [1]

   h. $23005 \div 100$

   Answer: _____ [1]

   i. 855.7×1000

   Answer: _____ [1]

2. Calculate
   a.   7366 + 63

   Answer: _____ [1]

   b.   967 – 281

   Answer: _____ [1]

   c.   825 – 88

   Answer: _____ [1]

   d.   691.6 + 52.3

   Answer: _____ [1]

3. Work out
   a.   296 × 8

   Answer: _____ [1]

   b.   722 × 52

   Answer: _____ [2]

4. Work out
   a.   240 ÷ 5

   Answer: _____ [1]

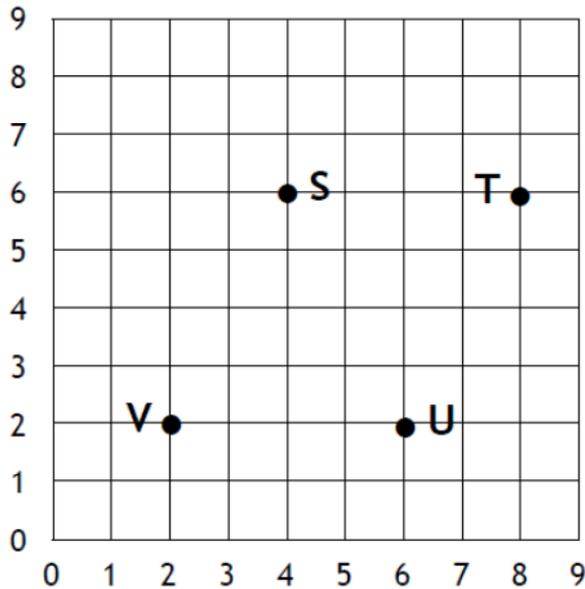   b.   501351 ÷ 3

   Answer: _____ [2]

2

5. Here is a list of 5 numbers:

   100.5   99.9   95.95   100.09   99.59

   Write these numbers in size order, starting with the smallest.

   Answer: .... , ... , ... , ... , ... [3]

6. Here are four points plotted on a grid.

   a. What are the co-ordinates of the points at letter U and letter S?

   U (................................,...........................) [1]

   S (................................,...........................) [1]

   b. If you joined the points in alphabetical order, then back to S, what shape would you have drawn?

   Answer: .... [2]

7. Complete the following sequences:

   a.   16   13   10   7   ....   [2]

   b.   1   4   9   16   ....   [2]

8. Fill in <, > or =

   a.   5 ☐ 7

   b.   3 ☐ - 4

   c. $\dfrac{1}{5}$ ☐ $\dfrac{1}{6}$

   d. $\dfrac{4}{8}$ ☐ $\dfrac{6}{12}$

                                                                       [4]

9. Order these fractions from smallest to largest

$\dfrac{4}{5}, \dfrac{1}{2}, \dfrac{9}{10}$

                                    Answer: .... [2]

10. Anja and Jon buy some cupcakes. Altogether they bought 28 cupcakes.
Anja has 4 more cupcakes than Jon. How many cupcakes do Anja and Jon each have?

                                    Answer: .... [2]

11. Daniela is travelling from London to Birmingham.
   a.   The distance from London to Birmingham is 189. 5 km. Convert the distance she is travelling to meters.

                                    Answer: .... [1]

   b.   The journey takes 196 minutes, if Daniela leaves London at 10.18 am, what time will she arrives in Birmingham?

                                    Answer: .... [2]

12. The supermarket had a sale on their bottles of lemonade. Instead of selling them for 80p per bottle, they sold them for 55p per bottle.
They sold 200 bottles of lemonade in a week.
How much less did they take by selling at the lower price?

Answer: .... [3]

END OF EXAMINATION