SOLIHULL JUNIOR SCHOOL

8+ ENTRANCE EXAMINATION

MATHEMATICS

SAMPLE PAPER 1

SOLIHULL

SOLIHULL SCHOOL 8+ SAMPLE PAPER

MATHEMATICS

Time 45 minutes

Answer all the questions in the spaces provided. Make sure that your answers are clear. You may use the spaces around each question to do your working out. If you cannot do a question, leave it and go on to the next.

1. Write six hundred and forty-eight in figures: _____

2. Write 589 using words: _____

3. Write down the real value of the underlined digit

   a) 7<u>4</u>5 _____

   b) <u>1</u>843 _____

4. Write these numbers in order of size starting with the smallest

   123 321 231 213 132 312

   _____

5. How much larger is 206 than 6? _____

6. What number 10 less than 704? _____

7. Complete the following sequence of numbers by filling in the gaps In brackets:

( ) 5 9 13 ( ) 21

8. Change 995p into £'s £ _____

9. Change £3.64 into pence _____p

10. How many 5 pences in £1? £ _____

11. Calculate $\frac{1}{4}$ of 36 _____

12. Calculate $\frac{5}{8}$ of 24 _____

13. In which times table do you find these multiples?

6 9 12 15 _____

14. What is the ninth multiple of 5? _____

15. What is the product of 6 and 8? _____

16. Calculate 1490 ÷ 10 _____

17. Write down the missing number in the boxes.

☐ x 6 = 42

☐ ÷ 9 = 4

$\frac{1}{2}$ of ☐ = 6

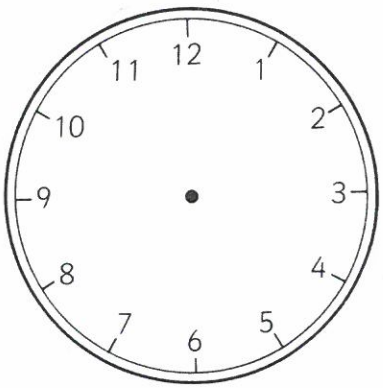
8 x ☐ = 24

18. Write 76 to the nearest 10 _____

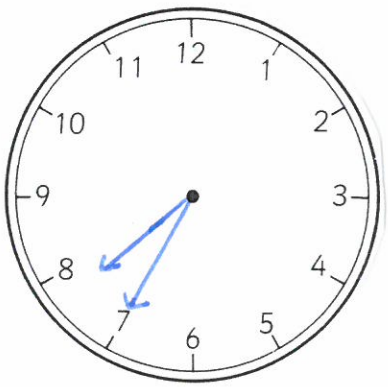
19. Write 234 to the nearest 100 _____

20. Write 'a quarter to ten' as a digital time _____

21. Draw the time 20 minutes past 8 on the analogue face below:



22. Write down the time on the clock face below:



23. What is 150 minutes in hours and minutes? _____hr _____mins

24. Choose from the following units of measure

mm cm m km g kg ml l

Which would you choose to measure:

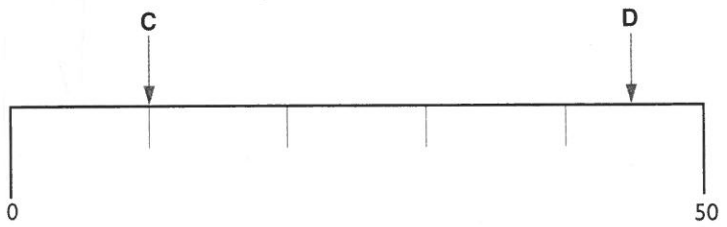
a. The length of a pencil? _____

b. The capacity of a kettle? _____

c. The distance from London to Cardiff? _____

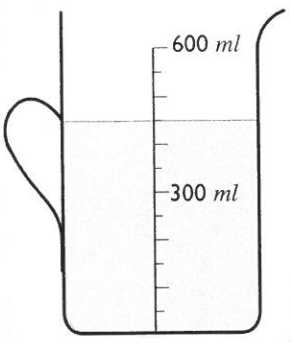
d. The mass (weight) of a tennis ball? _____

25. On the diagram write down the numbers show by the arrows:



_____ _____

26. How much water is there in the jug?



_____

27. The pictogram below shows the number of boys and girls in the at Wrighton School Infants:

Class 2	
Class 1	
Reception	

Boys and girls at Wrighton School Infants

Key :  = 2 girls  = 2 boys

Look carefully at the key.

a. What does  mean? _____

b. How many boys in Reception? _____

c. How many girls in Class 1? _____

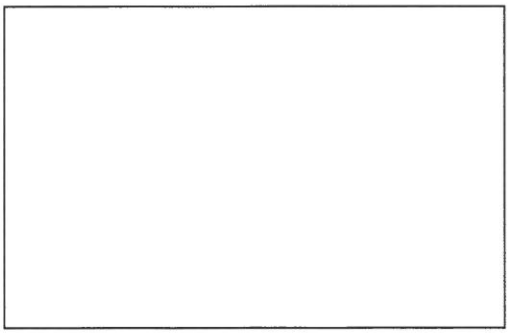
d. Which is the largest class? _____

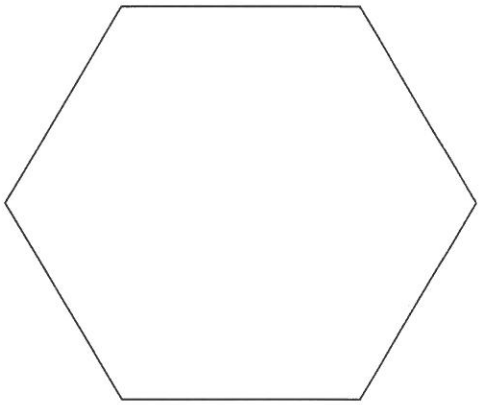
e. How many fewer girls are there in class2 than Reception? _____

f. How many children in the Infants School? _____

g. How many more girls than boys are there in the School? _____

28. Draw the lines of symmetry on the shapes below:





Solve the following problems writing down your method of working in the boxes provided.

29. Pat collects stamps. He has been given 115 French stamps, 29 Swiss stamps and 8 from Italy. How many stamps has Pat been given?

30. Adam, Bill and Colin each think of a number. Adam thinks of 85 and Bill's number is 49. Colin does a bit of mental arithmetic and says his number is 16 more than the sum of the other two. What is Colin's number?

31. There are 25 chapters in the book Gigi is reading. She has read the first 7 chapters. How many more chapters has Gigi to read?

32. Noel buys 200 stamps and uses 147 of them to send to his Christmas cards. How many stamps are left?

33. Ben drives home from London to Rome via Paris. It is 215 miles from London to Paris and 908 miles altogether from London to Rome. How far is Rome from Paris? (Hint: Draw a diagram)

34. There are 30 balloons in a bag. How many balloons are there in 5 bags?

35. Charlie's scooter uses 3 litres of petrol on every lap of the racing circuit. How many laps can Charlie complete with 48 litres of petrol?

36.

a. $\begin{array}{r} 24 \\ +\ 43 \\ \hline \\ \hline \end{array}$

b. $\begin{array}{r} 27 \\ +\ 58 \\ \hline \\ \hline \end{array}$

c. $\begin{array}{r} 38 \\ -\ 17 \\ \hline \\ \hline \end{array}$

d. $\begin{array}{r} 46 \\ -\ 29 \\ \hline \\ \hline \end{array}$

e. $\begin{array}{r} 25 \\ \times\ 3 \\ \hline \\ \hline \end{array}$

f. $3\overline{)93}$

g. $7\overline{)406}$

You have now completed the test.
Go back and check your answers.