SOLIHULL JUNIOR SCHOOL

8+ ENTRANCE EXAMINATION

MATHEMATICS

SAMPLE PAPER 2

SOLIHULL

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MATHEMATICS

SAMPLE PAPER

Time: 45 minutes

Answer all 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. The number of marks you would score for getting each question correct is in brackets on the right hand side of the page. *If you cannot do a question, leave it and go on to the next.*

1. Use any method you like to work out the answer to the following questions. You can do them in your head or show your working out on this page.

a. 12 + 17 = _____ (1)

b. 26 + 33 = _____ (1)

c. 4 x 6 = _____ (1)

d. 8 x 3 = _____ (1)

e. 39 – 14 = _____ (1)

f. 86 – 38 = _____ (1)

2. Write the number 2079 in words

_____ (1)

3. Write the number 13564 in words

_____ (1)

4. Draw a circle around the value of the underlined digits in the numbers below:

2<u>9</u>3 900 90 9 (1)

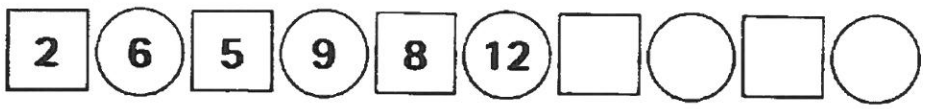
<u>8</u>761 8000 800 80 8 (1)

5. Complete the missing numbers in the sequences below:

13, 19, 25, 31, ____, ____ (1)

196, ____, 190, 187, ____ (1)

6. Continue with this number pattern. Write down the next 4 numbers in the blank circles and the squares.



(2)

7. Write these numbers in order of value starting with the largest and finishing with the smallest.

391 193 913 931 319 139 (2)

_____

8. Round 876

to the nearest 10 _____ (1)

to the nearest 100 _____ (1)

to the nearest 1000 _____ (1)

9. Make up £1.36 using as few coins as possible (4)

_____

10. Use any method you like to work out the answer to the following questions. You can do them in your head or show your working out on this page.

a. 248 + 483 = _____ (2)

b. 92 + 133 + 9 = _____ (2)

c. 282 – 121 = _____ (1)

d. 582 – 237 = _____ (2)

11. Work out the missing digits in the following questions and write them in the squares. (4)

$$\begin{array}{r} 3\square\square \\ +\quad 7\ 4 \\ \hline 4\ 1\ 6 \\ \hline \end{array} \qquad \begin{array}{r} 6\square 7 \\ -\ \square\ 4\ 5 \\ \hline 3\ 6\ 2 \\ \hline \end{array}$$

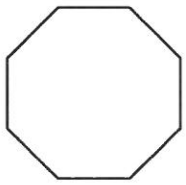
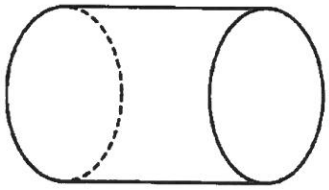
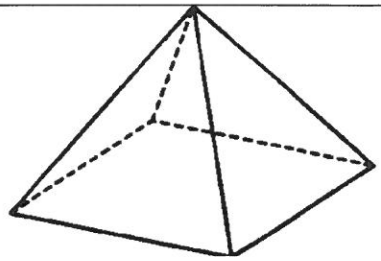
12. Circle 3 numbers which divide by 5 with no remainder. (3)

74	75	76
81	82	83
88	89	90
95	96	97

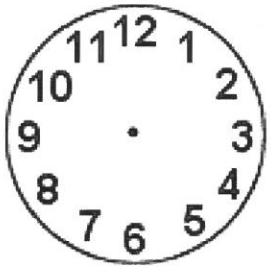
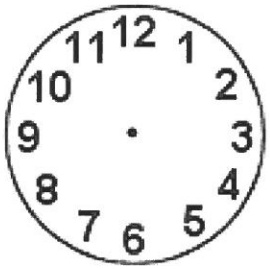
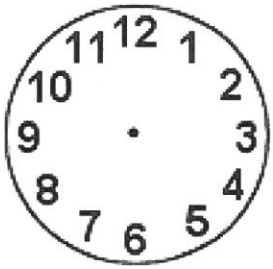
13. Circle two numbers which add up to 140. (1)

64	65	66
74	75	76
84	85	86

14. Write the names of these shapes in the spaces beneath each one. (3)

15. The time that should be showing on each clock face is written beneath each one. Fill in the hands on each clock remembering that the hour hand is shorter than the minute hands. (3)

Quarter to 8	Twenty five minutes past 3	5 minutes to 7

16. How many minutes are there in 3 hours 27 minutes? (2)

_____

17. How many grams are there in 7¾ kgs? (2)

_____

18. Matthew sets off with 60 pints of milk. He delivers 14 pints to the school, 28 to the hospital and 6 to the shop. How many pints were left with Matthew? (3)

_____

19. Use any method you like to work out the answer to the following questions. You can do them in your head or show your working out on this page.

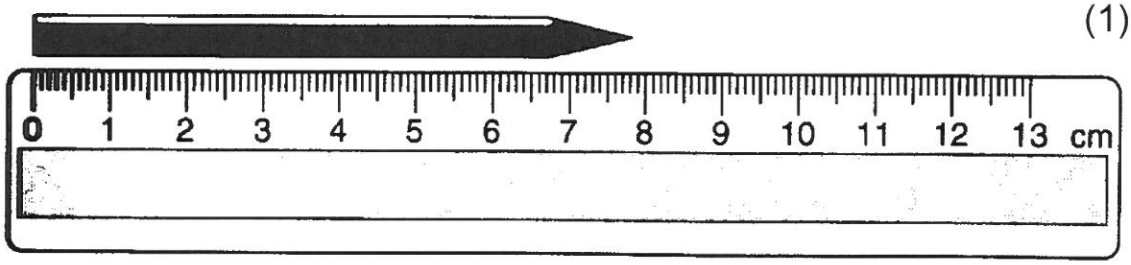
a. 36 x 5 = _____ (1)

b. 472 x 10 = _____ (1)

c. Double 73 = _____ (1)

d. 162 x 4 = _____ (2)

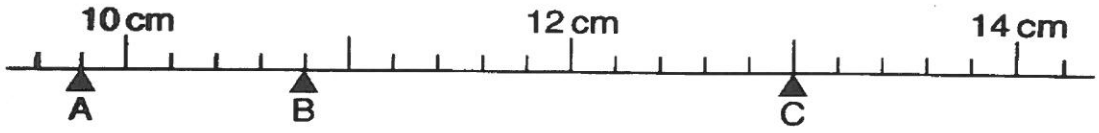
20. **Here** is a picture of a pencil.



(1)

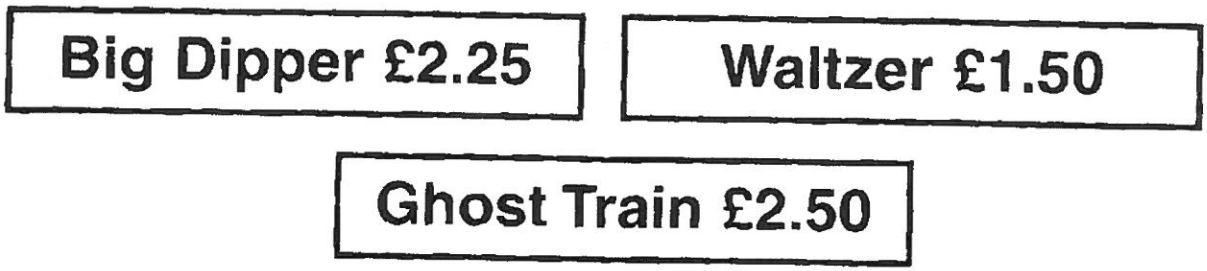
What is the length of the pencil.
Give your answer in centimetres, correct to one decimal place.

21. **The** picture shows part of a metre rule. (3)
Write down the values that arrows A, B and C are pointing to on this rule.



a) A = ☐ cm b) B = ☐ cm c) C = ☐ cm

22. Tom and Mary went to the fair. They both had £10.00 to spend.



a. Mary had a ride on each. How much did this cost? (2)

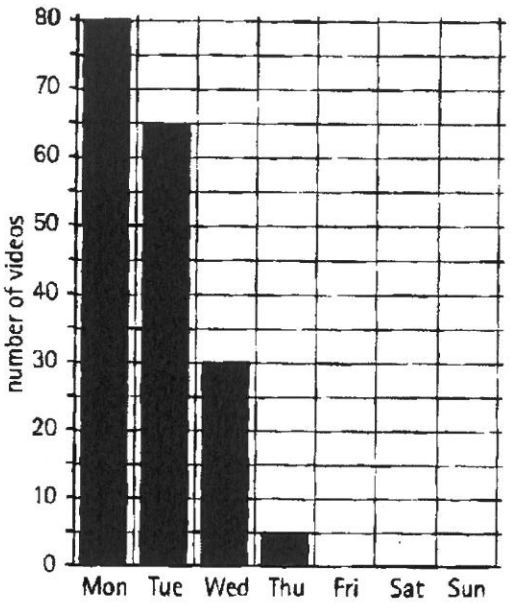
_____

b. Tom had two rides on the Big Dipper and two rides on the Ghost Train. Will he have enough money to have one go on the Waltzer? Show your working out. (3)

_____

23. This table shows the number of videos rented from 'Videos@Us' in one week in December.

Video rental from 'Videos@Us'	
Day	Number
Monday	80
Tuesday	65
Wednesday	30
Thursday	5
Friday	50
Saturday	75
Sunday	55



a. Complete the bar chart showing the number rented on Friday, Saturday and Sunday. (3)

b. How many videos are rented on Saturday and Sunday? (1)

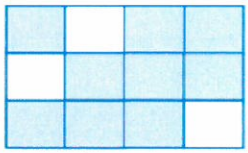
_____

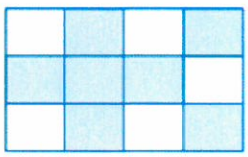
c. Which is the most popular day to rent a video? (1)

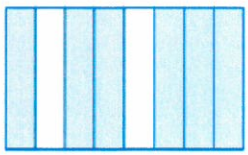
_____

24. What fraction of each shape is shaded?

(a)  _____ (1)

(b)  _____ (1)

(c)  _____ (1)

(d)  _____ (1)

e. Which of the shaded shapes have fractions that are equivalent fractions? (1)

_____

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

TOTAL (75)