

7 + Entrance Examination  
Sample Paper  
Mathematics  
Total Marks: 43  
Time allowed: 45 mins

Information for parents:

**This sample paper has been created for children who are embarking on the 7+ exam. We recommend that these papers are only used in the final run up to the exam.**

The questions within the paper follow Level 3 of the National Curriculum and cover the entirety of the Year 2 Maths curriculum, therefore we strongly advise that students younger than Year 2 do not attempt these papers.

The papers are designed to be challenging, and it is not expected that students will achieve full marks. Although the 7+ exams are highly competitive, it is important to remember that schools are likely to be looking for potential rather than 100% accuracy.

Should you wish for your child to prepare for the 7+ exam before Year 2, we suggest revising individual concepts and playing active Maths games before embarking on more formal revision or sample papers.

Full name .....

1. Put the numbers into order, starting with the largest number:

54            15            789            102            64

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1 mark

2. Use the numbers 2, 6 and 10 to make different number stories:

$$\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{12}$$

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{12}$$

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{12}$$

$$\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{12}$$

4 marks

3. Join the numbers that **add** together to make a total of 15

10	1
4	9
6	4
14	11
11	5

4 marks

4. Can you put the missing numbers into the boxes?

$$\begin{array}{r} 78 \\ - 31 \\ \hline \square \end{array}$$
$$\begin{array}{r} 95 \\ - 48 \\ \hline \square \end{array}$$
$$30 - 10 = \square$$
$$\begin{array}{r} 75 \\ - 32 \\ \hline \square \end{array}$$

4 marks

5. In which times tables would you find the following multiples?

Multiples of

.....

3	6	12	15	18	<input type="text"/>
10	15	20	25	30	

2 marks

8a. The farmer collected **18 eggs** and put them into egg boxes. If he put **6 eggs** in each box, how many boxes did he use? \_\_\_\_\_

b. The following week, the farmer collected **25** eggs. How many boxes did he need to use this time? \_\_\_\_\_

- c. Bill went to the shops with £2. He spent £1.70.  
How much change did he get? \_\_\_\_\_

6 marks

9. Circle the 3 coins you would use to make  
£2.25

£1      1p      10p      £2      5p      20p

2 marks

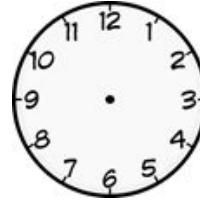
- 10a. Use a ruler to draw a line that is 5cm long:

- b. Use a ruler to draw a line that is 12cm long:

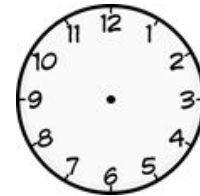
2 marks

11a. Draw hands on the clock face to show the time:

Half past three



b. Quarter to eleven



2 marks

12a. Jane is given two presents. One weighs 550g and another weighs 240g.  
Which weight is heavier?

\_\_\_\_\_

b. How much heavier is it than the other parcel?

\_\_\_\_\_

2 marks

13. Circle the odd numbers

15    26    78    33    109    320

1 mark

14. Circle the even numbers

20    75    998    41    120    42

1 mark

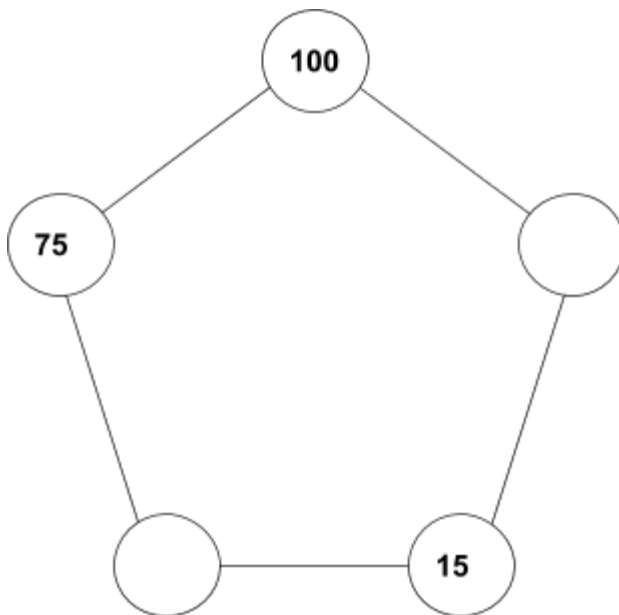
15. Round the numbers to the nearest 10.

32     $\longrightarrow$     \_\_\_\_\_    46     $\longrightarrow$     \_\_\_\_\_

17     $\longrightarrow$     \_\_\_\_\_    89     $\longrightarrow$     \_\_\_\_\_

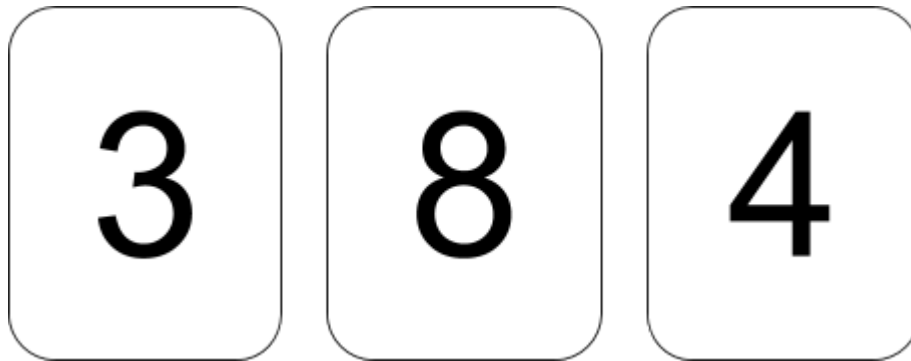
4 marks

16. Complete the missing numbers so that the total of all the numbers is **200**.



2marks

17. The magician has 3 cards.



a. What is the largest number he can make?

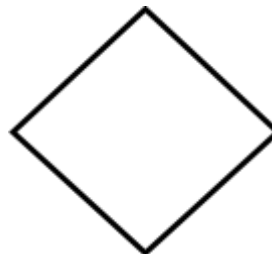
\_\_\_\_\_

b. What is the smallest two digit number he can make?

\_\_\_\_\_

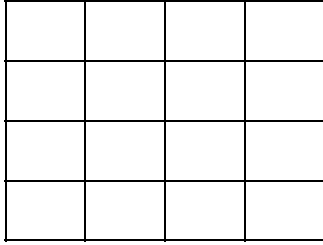
2 marks

18. Draw **one line** of symmetry on the shapes below.

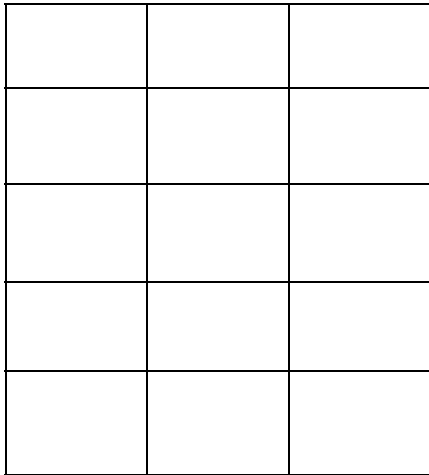


2 marks

19. Find the area of each notice board.



a. \_\_\_\_\_ squares



b. \_\_\_\_\_ squares

2 marks



**7 + Entrance Examination  
Sample Paper  
Mathematics Marking Scheme**

**Total Marks: 43**

1. 789, 102, 64, 54, 15

2.  $\boxed{2} \times \boxed{6} = \boxed{12}$

$$\boxed{10} + \boxed{2} = \boxed{12}$$

$$\boxed{2} + \boxed{10} = \boxed{12}$$

$$\boxed{6} \times \boxed{2} = \boxed{12}$$

3. 10 and 5, 4 and 11, 6 and 9, 14 and 1, 11 and 4

4.

$\begin{array}{r} 78 \\ - 31 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ - 48 \\ \hline \end{array}$	$30 - 10 =$	<b>20</b>
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>47</b></div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>47</b></div>	$75 - 32 =$	<b>43</b>

5.

Multiples of

.....

3	6	12	15	18	<table border="1"><tr><td><b>3</b></td></tr></table>	<b>3</b>
<b>3</b>						
10	15	20	25	30	<table border="1"><tr><td><b>5</b></td></tr></table>	<b>5</b>
<b>5</b>						

8a. 3

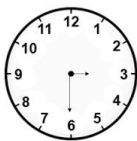
b. 5

c. 30p (half a point deducted for failure to include pence sign)

9. £2, 20p and 5p should be circled

10. Point given for question a and b if line drawn is accurate within 3mm

11a. Half a mark is deducted if hour hand is longer than minute hand.



b.



12a. 550g

b. 310g

13.



14.



15.

32 ----->30

46 ----->50

17 ----->20

89 ----->90

16. Any combination of numbers totalling 10.

17a. 843

b. 34

18. One mark given for a straight line drawn through the middle of each shape.

19a. 16 squares

b. 15 squares