7 + Entrance Examination
Sample Paper
Mathematics
Total Marks: 71
Time allowed: 1 hour

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. _Write these numbers in figures ._

a. forty five   _____

b. seven hundred and six   _____

c. ninety eight   _____

d. three hundred and forty one   _____

<div align="right">4 marks</div>

2. _Write these numbers in words:_

57   _____

102   _____

587   _____

922   _____

<div align="right">4 marks</div>

3.   *Circle the even numbers:*

15   22   50   79   99   102

<div align="right">1 mark</div>

4.   *Circle the odd numbers:*

11   25   62   30   563   100

<div align="right">1 mark</div>

5.   *Using the digits 4, 6 and 7, write:*

a. The largest number you can make:

_____

b. The smallest number you can make:

_____

<div align="right">2 marks</div>

6.   *Use the numbers 2, 8 and 10 to make different number stories:*

eg. | 2 | + | 8 | = | [   ] |

[   ] - [   ] = [   ]

[   ] + [   ] = [   ]

[   ] - [   ] = [   ]   3 marks

7. *Complete the number sequences*

1,   3,   5,   7, ☐

0,   4,   8, ☐ ,   ☐

100, 99, ☐ , 97, ☐ , ☐

3 marks

8a. Write a number between 21 and 33.

_____

b. Write a number between 89 and 99

_____   2 marks

9a. 8 + 8 =   ☐

b.   17 + 10 =   ☐

c.   215 + 5 =   ☐

d. 85 + 10 = ☐

e. 90 - 8 = ☐

f. 87 - 10 = ☐

g. 18 ÷ 3 = ☐

h. 45 ÷ 9 = ☐

i. 54 ÷ 2 = ☐

9 marks

10. A jar of jam weighs 38 grams. A jar of marmalade weighs 48 grams.

a. Which is lighter? _____

b. How much lighter? _____

2 marks

11a.   If John has 40 footballs and gives half of them away, how many footballs does he have left?

_____

b.   James has 15p and his brother has double that amount. How much does his brother have?
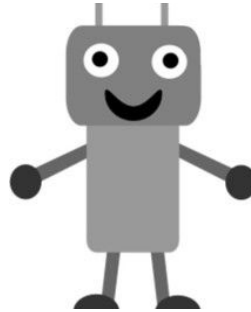
_____

4 marks

12.

| 25p | 16p | 30p | 11p |

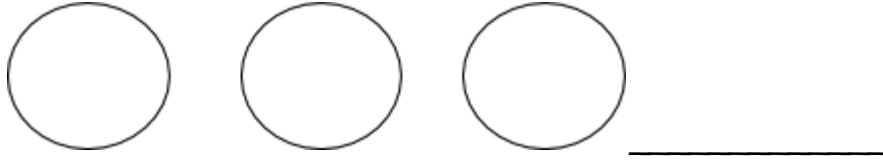a. How much would the Lego and the robot cost altogether?

_____ 2 marks

b. What is the difference in price between the jigsaw and the football?

_____ 2 marks

c. How much change would you receive from £1 if you bought the robot?

_____ 2 marks

13a. *Which 3 coins would add to a total of 13p?*

◯ ◯ ◯ _____

1 mark

b. *Amy has 3 coins to put in her piggy bank. How much does she have altogether?*

(10p) (5p) (2p)

1 mark

14a.   17 + 3 = ☐

b.   52 + 73 = ☐

c.   16- 8 = ☐

d.   71 - 19= ☐

4 marks

e. 5 2   9 2   6 1   6 1

+ 2 2   - 4 0   + 3 6   - 2 5

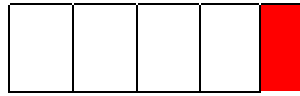|			

4 marks

15a. 4 multiplied by 3 = _____

b.   5 lots of 5 = _____

c.   2 multiplied by 8 = _____ 3 marks
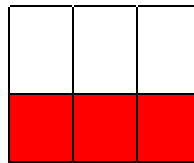
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16. *Match the fractions to the pictures:*

¼

½

¾

⅕
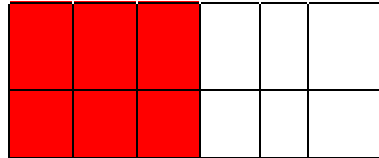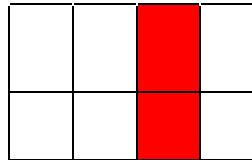
4 marks

17. *Match the digital and analogue times.*

3:00	½ past five
4:30	three o'clock
6:00	half past one
5:30	six o'clock
1:30	half past 4

5 marks

18. The owl flew from his nest in June and returned three months later. In what month did the owl return to the nest?
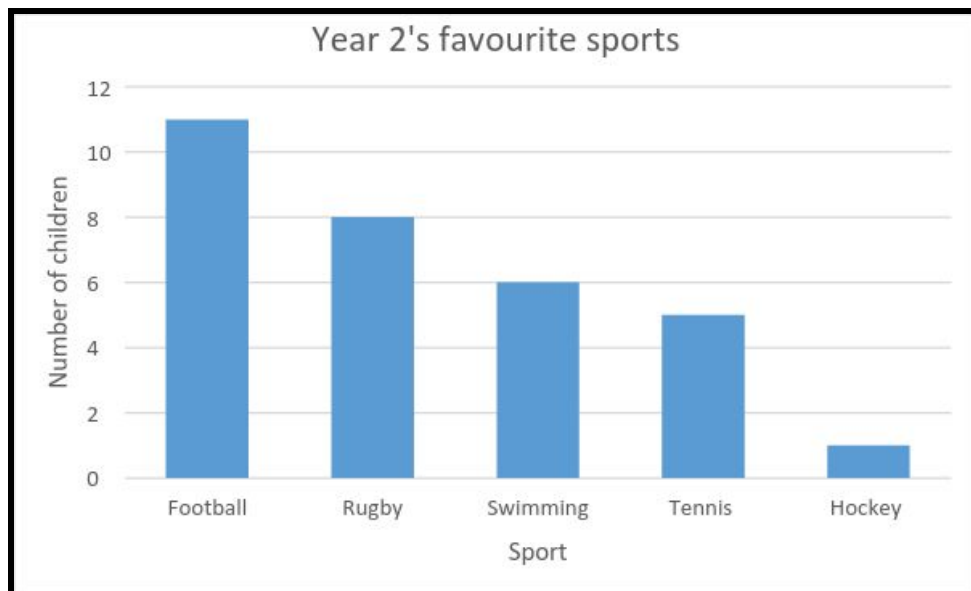
_____

2 marks

19. *Tick the shapes that have at least one right angle.*

2 marks

20. *The bar graph below shows the favourite sports of Year 2.*

a. Which sport is most popular?

_____ 1 mark

b. How many children
    voted for rugby as their   ——————————————   1 mark
    favourite sport?

c. How many more
    children prefer
    swimming to tennis?   ——————————————   1 mark

d. How many children are
    in Year 2?

                                                       ——————————————   1 mark

7 + Entrance Examination
Sample Paper
Mathematics Marking Scheme

Total Marks: 71

1a.   **45**

b.   **706**

c.   **98**

d.   **341**

2a.   **fifty seven**

b.   **one hundred and two**

c.   **five hundred and eighty seven**

d.   **nine hundred and twenty two**

3.   **22, 50, 102**

4.   **11, 25, 563**

5a.   **764**
b.   **467**

6.   **10-2=8**

        10-8=2

        8+2=10

7. 1,   3,   5,   7,   **9**

0,   4,   8,   **12,**   **16,**

100, 99, **98,** 97, **96,**   **95**

8a.   **22 - 32**

b.   **90-98**

9a.   16
b.   27
c.   220
d.   95
e.   82
f.   77
g.   6
h.   5
i.   27

10a.   **The jar of jam**
b.   **10 grams (Half a mark deducted if there is no unit of measure)**

11.   **In question 11, one mark is given for a correct answer, and one mark is given for showing working.**
a.   **20**

b.   **30p (Half a mark deducted if there is no unit of measure)**

12.   **In question 11, one mark is given for a correct answer, and one mark is given for showing working.**
a.   **55p**
b.   **5p**
c.   **70p**

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13a.   **10p, 2p, 1p**

b.   **17p (Half a mark given for adding in correct unit)**

14a.   **20**
b.   **125**
c.   **8**
d.   **52**
e.   **74, 52, 97, 36**

15a.   **12**
b.   **25**
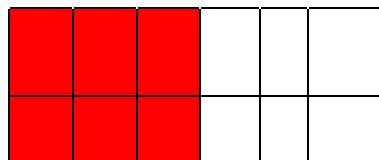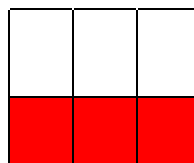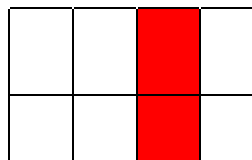**c.**   **16**

16.

$\frac{1}{5}$
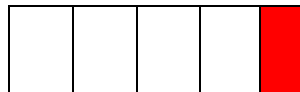
$\frac{3}{4}$

$\frac{1}{2}$

$\frac{1}{4}$

17.   **3:00 = three o'clock, 4:30 = half past 4, 6:00 = six o'clock, 5:30 = ½ past five, 1:30 = half past one**

18.   **September**

19.   **The triangle and the rectangle**

20a.   **Football**
b.   **8**
c.   **1**
d.   **31**