7 + Entrance Examination
Sample Paper
Mathematics
Total Marks: 78
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 ………………………..

*Answer the following questions. You **should** show your working. You **may not** use a calculator.*

1a. 12 + 7 = ☐

b. 18 – 3 = ☐

c. 21 + 9 = ☐

d. 54 - 26 = ☐

e. ☐ + 2 = 8

f. ☐ - 9 = 3

g. 18 + ☐ = 31

h. 15 - ☐ = 9

8 marks

2a. 5 + 2 = 3 + ☐

b. 15 - ☐ = 20 - 11

c. 42 + ☐ = 62 - 13

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d.   40   +   □   = 30   +   12

3a.   3 x 4 =   □

b..   15 x 10 =   □

c.   18 ÷ 2 =   □

d.   20 x 4 =   □

e.   96 ÷ 3 =   □

4.   _Match the figures to the words._

ninety seven   318

three hundred and eighteen   222

one hundred and thirteen   97

two hundred and twenty two   113

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5. _Put the numbers into order from largest to smallest._

59	504	318	91

4 marks

6. _Complete the table._

	Number of tens	_Number of units_
70		
37		

4 marks

Answer the questions below. Don't forget to show your working.

7a. Ben has 17 sweets and Bob has 14 sweets. How many sweets do they have altogether?

_____

b. Amy has been swimming 14 times over the summer holidays. Her sister Joanne has only been 5 times. How many more times has Amy been swimming than Joanne?

_____

c. Samantha has 6 fewer pencils than Matthew. If Matthew has 31 pencils, how many does Samantha have?

_____

d. Christopher makes 80 cakes. They need to be put into boxes. Each box holds five cakes. How many boxes will Christopher need?

_____

e. Mrs Smith orders 8 boxes of glue sticks each class. If there are 5 classes, how many boxes of glue sticks has she ordered altogether?

_____

10 marks

8a. The baker has 17 rolls in his shop in the morning. He puts 4 rolls into each bag. How many full bags of rolls does he have?

_____

b. How many rolls are left over?

_____

c. If he sells each bag for £2, how much money will the baker make?

_____

6 marks

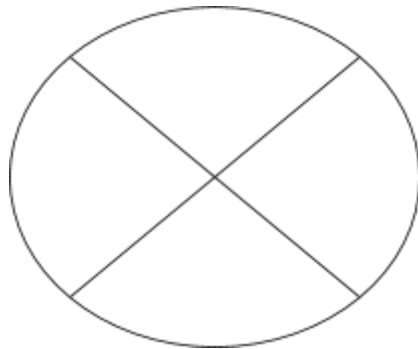9.   *Complete the number sequences.*

12,   14,   16,   18, [,]

17,   15,   13, [,] 9

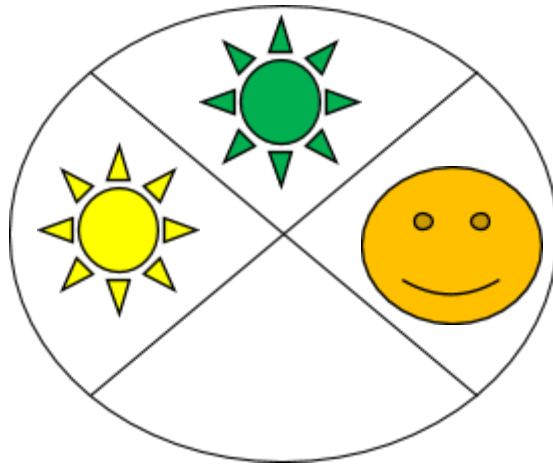90, 70,   50, [,]

3,   4,   6,   9, [   ]

4 marks

10.   *Shade three quarters of the shape:*

1 mark

11.   *Look carefully at this pattern:*

a. What fraction of the circle has a **shape** in it?

_____

b. What fraction of the circle has a **green sun** in it?

_____

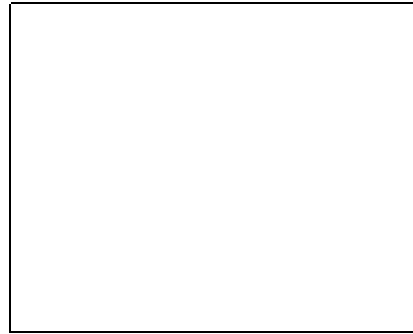c. What fraction of the circle has a **smiley face** in it?

_____

3 marks

12.   Joe's chocolate bar is made up of 16 squares. He decides to share it with his friend. How many squares does Joe have?

_____   2 marks

13a.   Chloe had 38p. She dropped
       15p. How much money did
       she have left? _____ 2 marks

b.   Draw the 3 coins that she
       had left:

       ┌─────────────────────┐
       │   │
       │   │
       │   │
       │   │
       │   │
       └─────────────────────┘

                                                   2 marks

14.   Lewis has 60p. James has
       £1.10. How much money do
       they have altogether? _____ 2 marks

15a.   George's Mum gave him 60p and
       his Dad gave him 40p on
       Monday. They gave him the
       same amount of money on
       Tuesday and Wednesday. How   _____ 2 marks
       much money did George have
       altogether?

b.   Jane had £4.44. She gave a
       quarter to her friend. How much
       money did she give to her friend? _____ 2 marks

16. *Round the numbers to the nearest 10.*

a. 31 = _____ to the nearest 10

b. 47 = _____ to the nearest 10

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

17. *Match the centimetres to the correct number of metres*.

2m	400cm
4m	200cm
1 ½ m	250cm
2 ½ m	150cm

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

18. *Can you write what time it is in words?*
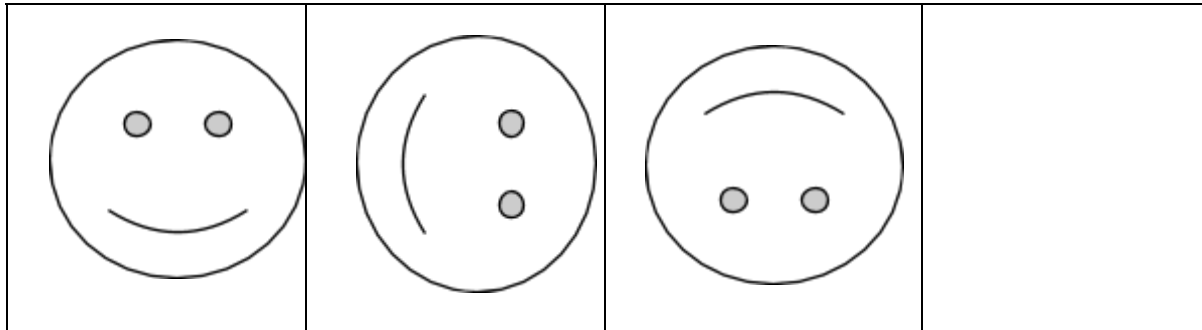
7:15 _____

9:30 _____

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

19. *Complete the patterns.*

2 marks

20. *Complete the magic square by working out the magic number. The sums of the columns, rows and diagonals must be the same. The numbers **1-8** can only appear **once** in the square.*

5	0	
		2
1	8	3

3 marks

7 + Entrance Examination
Sample Paper
Mathematics Marking Scheme

Total Marks: 79

1a.   **19**

b.   **15**

c.   **30**

d.   **28**

e.   **6**

f.   **12**

g.   **13**

h.   **6**

2a.   **4**

b.   **6**

c.   **7**

d.   **2**

3a.   **12**

b.   **150**

c.   **9**

d.   **80**

e.   **32**

4.   **One mark given per correct answer.**

5.   **504, 318, 91, 59**

6.   **70 = 7 tens and 0 units**
           37 = 3 tens and 7 units

7.   **In question 6, one point is given for a correct answer and**
           one mark is given for showing working.
a.   **31**

b.   **9**

c.   **25**

d.   **16**

e.   **40**

8a.   **4**

b.   **1**

c.   **£8**

9.

12,   14,   16,   18,   **20**

17,   15,   13,   **11,** 9

90, 70,   50,   **30**

3,   4,   6,   9,   **13**

10. Mark given for three clear sections shaded.

11a. three quarters   or ¾

b. one quarter or ¼

c. one quarter or ¼

12. **8** One mark also given for showing working.

13.

a. 23p. (one mark). One mark is given for showing working.

b. 20p, 2p, 1p

14. £1.70 (one mark). One mark is also given for showing working.
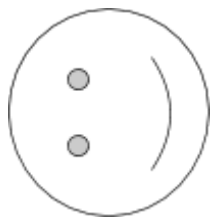

15a. £3

b. £1.11

16a. 30

b. 50

17. 2m = 200cm, 4m = 400cm, 1 ½ m = 150cm, 2 1/2 m = 250cm

18. 7:15 = quarter past seven
9:30 = half past nine

19.

One mark for correct placement of mouth and one mark for correct placement of eyes.

20.

5	0	7
6	4	2
1	8	3

One mark given for each correct number.