7 + Entrance Examination
Sample Paper
Mathematics
Total Marks: 68
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 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 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 questions below. You can show your working on the space provided.

1a.   18 - 7 =

b.   5 + 8 =

c.   15 - 9 =

d.   17 + 28 =

e.   2 x 3 =

f.   20 ÷ 4=

6 marks

Fill in the missing numbers.

2a. ☐ x 3   = 12

b. ☐ - 9   = 20

c. ☐ + 8   = 31

d.   24   + 5   = 35   -   ☐

e.   18   -   4   =   15   -   ☐

f.   6   +   ☐   =   18

2a.   ☐   x   3   =   12

b.   ☐   -   9   =   20

c.   ☐   +   8   =   31

d.   24   +   5   =   35   -   ☐

e.   18   -   4   =   15   -   ☐

f.   6   +   ☐   =   18

3a.   Sam has 24 apples but decides to give 9 way. How many apples does he have left?

b.   Tom has 16 sweets and decides to share them between him and his

friend. How many sweets does Tom's friend get?

_____ 2 marks

c. A bag of crisps cost 5p. How much would it cost if I bought a bag of crisps every day for 5 days?

_____ 2 marks

d. Sue has 21p and Ben has 16p more. How much money does Ben have?

_____ 2 marks

e. Alison has £32 but spends half in the shops. How much money is she left with?

_____ 2 marks

f. A class of 32 goes to the theatre, but there are only 24 seats. How many more seats are needed?

_____ 2 marks

g. 6 hot dogs cost £1.10. How much would it cost to buy 12 hot dogs?

_____ 2 marks

h. David's alarm clock goes off at 6:45. He sleeps in for 15 minutes. What time does he get up?

_____ 2 marks

i. Joe is 125 cm tall. His younger brother John is 15 cm taller than him.

How tall is John?

Can you put the correct sign in the missing box?   **+**   **-**   **÷**   **x**

4a.   23 ☐ 8 = 15

b.   30 ☐ 5 = 6

c.   23 ☐ 7 = 30
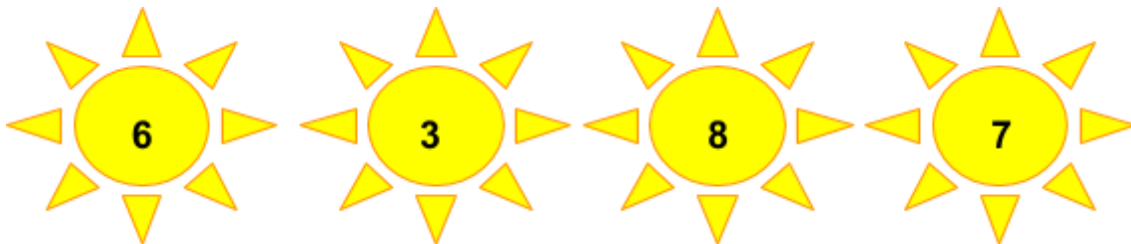
d.   7 ☐ 2 = 14

4 marks

5.   *Circle all the even numbers.*

2 marks

6.   *Match the words to the figures.*

79   five hundred and ninety nine

101   seventy nine

214   one hundred and one

599   two hundred and fourteen

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

7.   *Finish partitioning these numbers.*

432   =   400   +   [   ]   +   2

517   =   500   +   10   +   [   ]

112   =   [   ]   +   10   +   2

509   =   500   +   [   ]   +   9

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

8.   *Complete the sequences.*

900ml,   700ml,   500ml, [____] *, 100ml*

110g   120g   130g [____] *, 150g   160g* [____] *,*

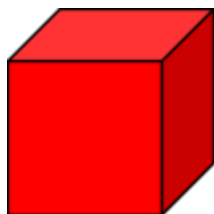[____] *, 1.5kg   2kg   2.5kg* [____] *, 3.5kg*

<div align="right">5 marks</div>

9.   <u>*Write your answers in the boxes below*</u>.
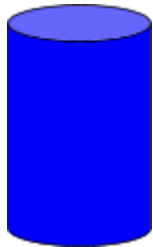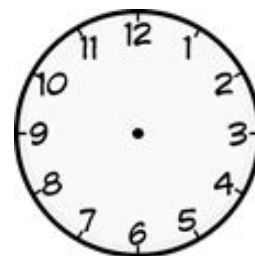
Number of faces

Number of edges

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

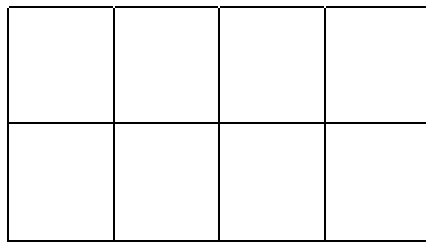10.   Samantha goes to bed at 8:30pm. Draw the hands onto the clock face to show this time.
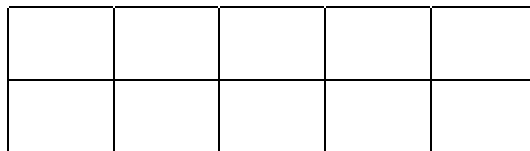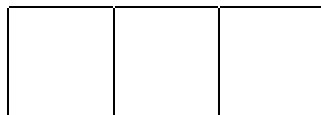
11.   *Shade the fractions.*

A half

Three
quarters

One fifth

Two
thirds

4 marks

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

a.   11 is nearest to

b.   26 is nearest to   _____

c.   39 is nearest to   _____

d.   99 is nearest to   _____

4 marks

13.   _Fill in the correct temperature in the empty boxes._

| 5°C	10°C		20°C	25°C		35°C		45°C	50°C

3 marks

14a.   Ben scored 6 goals in his first
match. On his second match he
scored twice as many goals. How   _____ goals
many goals has Ben scored
altogether?

b. In four weeks, Ben played 16 games
    of football. How many games did
    Ben play in 1 week?

                                                    _____ games

                                                              2 marks

15. *Fill the spaces with a number 0-6. All lines should add to 9 and and each*
number should only appear once in the triangle/
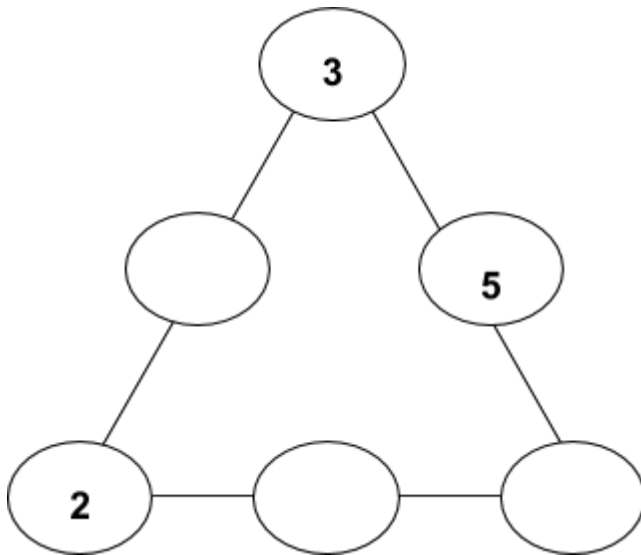
                                                              3 marks

Mathematics Marking Scheme

Total Marks: 68

1a.   **11**

b.   **13**

c.   **8**

d.   **45**

e.   **6**

f.   **5**

2a.   **4**

b.   **29**

c.   **23**

d.   **6**

e.   **1**

f.   **12**

3. One mark awarded for correct answer, one mark awarded for showing working.

a.   **15**

b.   **8**

c.   **25p**

d.   **37p**

e.   **£16**

f.   **8**

g.   **£2.20**

h.   **7:00**

Owl Tutors

i. 140cm

4a. -

b. ÷

c. +

d. x

5. 6 and 8

6. One mark awarded per correct answer.

7.

| 432 | = | 400 | + | 30 | + | 2 |

| 517 | = | 500 | + | 10 | + | 7 |

| 112 | = | 100 | + | 10 | + | 2 |

| 509 | = | 500 | + | 0 | + | 9 |

8.

900ml,   700ml,   500ml,   [   ],   100ml

110g	120g	130g	**140g**	150g	160g	*170g*

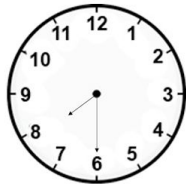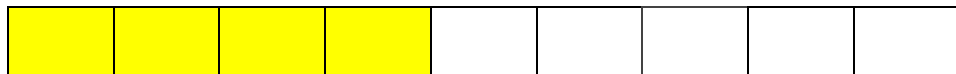| **1kg**	1.5kg	2kg	2.5kg	**3kg**	3.5kg

9. **2 faces**

12 edges

10. **Half a mark given for correct time, half a mark given for minute hand being smaller than the hour hand.**

11.
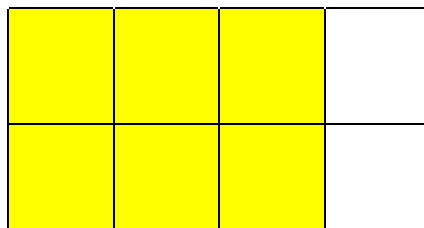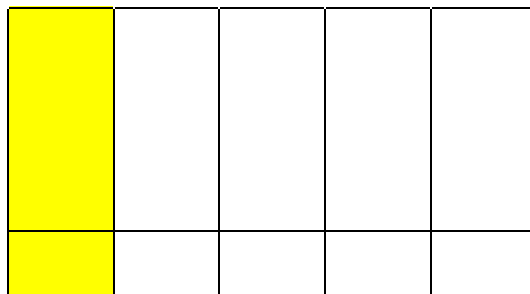
A half

Three quarters

One fifth

Two thirds

🟨	🟨	

12a. 10

b. 30

c. 40

d. 100

13.

5°C	10°C	**15°C**	20°C	25°C	**30°C**	35°C	**40°C**	45°C	50°C

14a. 18

b. 4

15.