7 + Entrance Examination

Paper 1

Numeracy / Maths

**Total marks:** 65

**Time allowed:** 1 hour

Full name ..................................................
Answer the questions below. You can show your working in the space provided.

1a. 18 - 7 =  

b. 5 + 8 =  

c. 15 - 9 =  

d. 17 + 28 =  

e. 2 x 3 =  

f. 20 ÷ 4 =  

2 marks

2. Fill in the missing numbers

a.  x 3 = 12  

b.  - 9 = 20  

c.  + 8 = 31  

3 marks
3 a. Sam has 24 apples but decides to give 9 away.
How many apples does she have left? ___________ 2 marks

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 hotdogs cost £1.10. How much would it cost to buy 12 hotdogs? ___________ 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 125cm tall. His younger brother John is 15cm taller than him. How tall is John? ___________ 2 marks
4. Can you put the correct sign in the spaces provided below? +, -, \times, \div

   a. \hspace{1cm} 23 \hspace{0.5cm} 8 = 15

   b. \hspace{1cm} 30 \hspace{0.5cm} 5 = 6

   c. \hspace{1cm} 7 \hspace{0.5cm} 2 = 14

   d. \hspace{1cm} 23 \hspace{0.5cm} 7 = 30

5. Circle all the even numbers.

   \[
   \begin{array}{cccc}
   6 & 3 & 8 & 7 \\
   \end{array}
   \]

6. Match the words to the figures.

   79 \hspace{1cm} five hundred and ninety nine

   101 \hspace{1cm} seventy nine

   214 \hspace{1cm} one hundred and one

   599 \hspace{1cm} two hundred and fourteen

4 marks
7. Finish partitioning these numbers:

\[ 432 = 400 + \square + 2 \]
\[ 517 = 500 + 10 + \square \]
\[ 112 = \square + 10 + 2 \]
\[ 509 = 500 + \square + 9 \]

4 marks

8. Complete the sequences:

a. 900ml, 700ml, 500ml, __________, 100ml

b. 110g, 120g, 130g, __________, 150g, 160g, __________

c. __________, 1.5kg, 2kg, 2.5kg, __________, 3.5kg

5 marks

9. Write your answers in the boxes below:

Number of faces

Number of edges

2 marks
10. Samantha goes to bed at 8:30pm. Draw the hands onto the clock face to show this time.

11. Shade the fractions:

a. A half:

b. Three quarters:

c. One fifth:
d. Two thirds

12. Round the numbers to the nearest ten.
   
a. 11 is nearest to ___________
   b. 26 is nearest to ___________
   c. 39 is nearest to ___________
   d. 99 is nearest to ___________

13. Fill in the correct temperature in the empty boxes.

<table>
<thead>
<tr>
<th>5°C</th>
<th>10°C</th>
<th>20°C</th>
<th>25°C</th>
<th>35°C</th>
<th>45°C</th>
<th>50°C</th>
</tr>
</thead>
</table>

3 marks

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

___________ goals

1 mark

14b. In four weeks, Ben played 16 games of football. How many games did Ben play in 1 week?

___________ goals

1 mark
15. Fill in the spaces with a number 0 – 9. All lines should add to nine and each number should only appear once in the triangle.
7 + Entrance Examination - Maths Paper 1 - Numeracy Mark Scheme

Total Marks: 65

1
   a. 11
   b. 13
   c. 6
   d. 45
   e. 6
   f. 5

2
   a. 4
   b. 29
   c. 23

3. One mark awarded for correct answer, one mark awarded for showing working:
   a. 15
   b. 8
   c. 25p
   d. 37p
   e. £16.00
   f. 8
   g. £2.20
h. 7:00

i. 140cm

4
   a. subtract
   b. divide
   c. multiply
   d. add

5. 6 and 8

6. One mark awarded to each correct answer

7.
   a. 30
   b. 7
   c. 100
   d. 0

8.
   a. 300ml
   b. 140g, 170g
   c. 1 kg, 3kg

9.
   a. 2 faces
   b. 12 edges

10. Half a mark given for a correct time, half a mark given for minute hand being smaller than the hour hand.
11. Shade the fractions:

a. A half

b. Three quarters

c. One fifth

d. Two thirds

12.

a. 10
b. 30
c. 40
d. 100

13.
14.
   a. 18
   b. 4

15.