7 + Entrance Examination

Paper 3

Numeracy / Maths

Total marks: 58
Time allowed: 45 minutes

Full name .................................
1. Continue the number sequences below by writing the next 3 numbers.

a. 12, 15, 18, _____ , _____ , _____

b. 5, 10, 15, _____ , _____ , _____

c. 14, 12, 10, _____ , _____ , _____

3 marks

2. Round the following numbers to the nearest 10 by joining them to the number line below.

<table>
<thead>
<tr>
<th>17</th>
<th>11</th>
<th>3</th>
<th>8</th>
<th>61</th>
<th>31</th>
</tr>
</thead>
</table>

3 marks

3. Write the following as words

a. 13 ______________________

b. 200 _____________________

c. 22 _______________________

3 marks
4. Write the following as numbers

a. Seven __________

b. Fourteen __________

c. Two hundred and ten __________

5. a. Put these numbers in the correct order from smallest to largest.

22, 17, 5, 15, 26, 34, 2,

_________________________ 1 mark

b. Circle the odd numbers in the sequence above.

1 mark

6. Put the correct sign in the spaces provided below ( + , - , x , ÷ )

a. 23 _____ 8 = 15

b. 30 _____ 5 = 6

c. 7 _____ 2 = 14

d. 23 _____ 7 = 30

4 marks
7. Answer the following questions:

a) \(2 \times 3 = \) ____

b) \(2 \times 5 = \) ____

c) \(3 \times 2 = \) ____

d) \(3 \times 5 = \) ____

e) \(2 \times 10 = \) ____

f) \(5 \times 10 = \) ____

g) \(53 - 8 = \) ____

h) \(18 + 5 - 4 = \) ____

i) \(4 + 11 - 2 = \) ____

9 marks
8. What fraction of each shape is shaded? Draw a line from each fraction to the correct shape.

\[ \frac{1}{2} \quad \frac{1}{4} \quad \frac{2}{4} \]

9. Shade one half on both of the shapes below.

\[
\text{Triangle}
\]

\[
\text{Star}
\]

10 a. Six hotdogs cost £1.10. How much would it cost to buy 12 hotdogs? __________________ 2 marks

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

11. John wants to buy an apple that costs 12p.

a. Which 2 coins could he use? (Circle your answer)

b. Which 3 coins could he use to make the same amount of 12p? (Write your answer below)

12.

a. How many days are in a week? _________

b. How many hours are there in a day? _________
13. Show the times on these clocks:

5 o’clock: 

Half past 2:

14. Match the following shapes to their names

Circle

Triangle

Hexagon

Pentagon

Square
15. **George grew some sunflowers.**

One grew to 46cm

The tallest was 53cm

a) How much taller was that? _______________ 1 mark

He planted 14 seeds

Half of them died

b) How many sunflowers did George grow? _______________ 1 mark

He watered them twice a day for 2 weeks.

c) How many times was that? _______________ 1 mark
15. Look at this chart and answer the questions below:

![Chart]

**Favourite colour**

- Black
- Blue
- Cyan
- Dark Magenta
- Green
- Magenta
- Red
- White
- Yellow

a) Which was the most popular colour? ____________________

b) How many more children preferred yellow to black? _________

c) How many children chose green as their favourite colour? _________

3 marks
7 + Entrance Examination
Maths Paper 3
Mathematics Marking Scheme

Total marks: 58

1.
   a. 21, 24, 27
   b. 20, 25, 30
   c. 8, 6, 4

2.
   • 17 should be rounded to 20
   • 11 should be rounded to 10
   • 3 should be rounded to 0
   • 8 should be rounded to 10
   • 61 should be rounded to 60
   • 31 should be rounded to 30

3.
   a. thirteen
   b. two hundred
   c. twenty two

4.
   a. 7
   b. 14
   c. 210

5.
   a. 2, 5, 15, 17, 22, 26, 34
   b. 5, 15, 17

6.
   a. 23 - 8 = 15
   b. 30 ÷ 5 = 6
   c. 7 x 2 = 14
   d. 23 + 7 = 30

7.
   a. 2 x 3 = 6
   b. 2 x 5 = 10
   c. 3 x 2 = 6
   d. 3 x 5 = 15
e. $2 \times 10 = 20$

f. $5 \times 10 = 50$

g. $53 - 8 = 45$

h. $18 + 5 - 4 = 19$

i. $4 + 11 - 2 = 13$

8.

\[ \frac{1}{2} \]

\[ \frac{1}{4} \]

\[ \frac{2}{4} \]

9. 1 mark awarded for shading half of each shape.

10.

a. £2.20

b. £16.00

c. 25p

11.

a. Students should circle the 2p and 10p coins

b. $5p + 5p = 2p$
12.
   a. 7
   b. 24

13.
   a. The long hand should point to 12; the short hand should point to 5
   b. The long hand should point to 6; the short hand should point between 2 and 3

14. Circle
    Triangle
    Hexagon
    Pentagon
    Square

15.
   a. 7cm
   b. 7
c. 28

16.
   a. dark magenta
   b. 3
   c. 5