8 + Entrance Examination

Paper 2

Numeracy / Maths

Total marks: 78

Time allowed: 40 minutes

Full name .....

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1. **Write the following numbers in order of size from the largest to the smallest:**

   6007 6017 7060 7016 6700 7006

   _____ (1 mark)

2. **Write the following in figures:**

   a) One thousand, three hundred and eighty: _____ (1 mark)

   b) Six thousand and twenty five: _____ (1 mark)

3. **Complete the missing numbers in the sequences below:** (4 marks)

   a. 124, 134, 144, 154, _____ , _____

   b. 34, 45, 56, 67, _____ , _____

   c. 144, 134, 124, 114, _____ , 94, _____

   d. 6071, 5071, 4071, _____ , _____ 1171

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4. **Put the following symbols; = (equal to), > (greater than), < (less than) between these numbers and fractions:** (4 marks)

a. 6321 ☐ 6213

b. 2025 ☐ 2052

c. $\frac{3}{4}$ ☐ $\frac{1}{2}$

d. $\frac{2}{8}$ ☐ $\frac{3}{4}$

5. **Write your answers on the line. You can show your working on the right hand side if you wish.** (12 marks)

a. 65 + 458 = _____

b. 783 - 349 = _____

c. 63 + _____ = 45 + 45

d. 34 + 12 = _____ - 8

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e. 34 + 12 + 8 = _____

f. 5 + 12 + 9 + 7 = _____

6. **There are 127 children in the playground. 59 of the children go inside to have their lunch. How many children are left in the playground?**

_____ (2 marks)

7. **Max has £160. He gives $\frac{1}{4}$ of his money to charity. How much money does he have left?**

_____ (2 marks)

8. **Fill in the answer to the following questions:** (4 marks)

a. 3 x 8 = _____

b. 6 x 6 = _____

c. 42 ÷7 = _____

d. 88 ÷ 11 = _____

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9. Circle 3 numbers that divide by 4 with no remainder. (1 mark)

15	27	56
40	71	36
29	26	43
16	2	13

10. Circle 2 numbers that add up to 130. (1 mark)

25	10	75
90	55	30
35	110	95
45	115	85

11. Fill in the answer to the following questions: (4 marks)

a. 56 x 100 = _____

b. 25 x 200 = _____

c. 67 x 1000 = _____

d. 2400 ÷ 200 = _____

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12. **The youth club have organised a trip to the theatre. If the children fill up 8 minibuses and there are 21 children in each bus, how many children are there altogether on the trip?**

_____ (2 marks)

13. **Sahil sets off with 67 papers to deliver on his paper round. He delivers 20 on Green Street, 8 on Cambridge Street and 5 on Oak Close. How many more papers does Sahil have left to deliver?**

_____ (2 marks)

14. **It takes Sahil 5 minutes to deliver 1 paper. How many minutes will it take him to deliver 9 papers?**

_____ (2 marks)

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15. **Write your answers on the line. You can show your working on the right hand side if you wish.** (10 marks)

a. 65 x 8 = _____

b. 4 x 53 = _____

c. 96 ÷4 = _____

d. Double 64 = _____

e. 24 x 3 = _____ x 2

16. **What number should replace the * symbol with so the following fractions are equivalent? Write your answers on the lines provided.** (3 marks)

a. $\frac{2}{10} = \frac{*}{5}$ _____

b. $\frac{2}{8} = \frac{1}{*}$ _____

c. $1 = \frac{*}{8}$ _____

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17. Sophie has saved some money in her piggy bank. She has worked out that $\frac{1}{4}$ of the money in her piggy bank is £20. How much money does she have in total?

_____ (2 marks)

18. Lucy has £44.45. Ella has £18.35 more than Lucy. How much money does Ella have?

_____ (2 marks)

19. Write the fraction $\frac{5}{15}$ in its simplest form.

_____ (1 mark)

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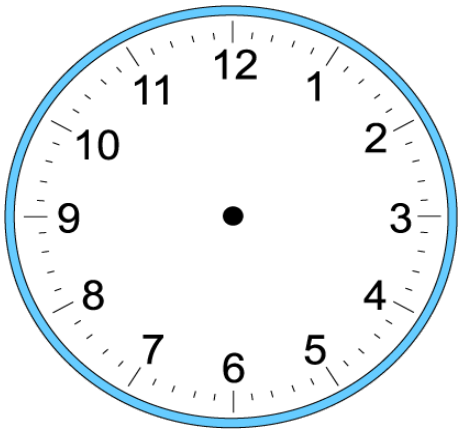
20. Write these numbers rounded to the nearest 10: (3 marks)

a. 23 rounded to the nearest 10 is _____

b. 169 rounded to the nearest 10 is _____

c. 555 rounded to the nearest 10 is _____

21. Draw hands on the clock face to show the time 5.45pm. (1 mark)



22. How many grams (g) are there in 6.7 kilograms? _____ (1 mark)

23. How many metres (m) are there in 4500 centimetres? _____ (1 mark)

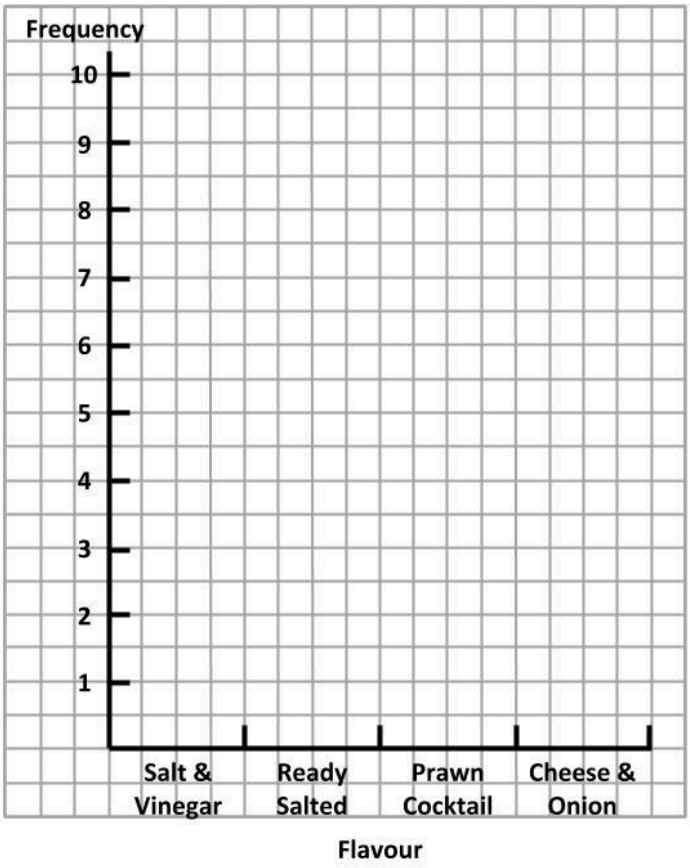
24. A class of children voted on their favourite flavour of crisps. They collected their results in the frequency table below.

a. Fill in the column marked 'Frequency' in the table below. (1 mark)

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Flavour	Tally	Frequency
Ready salted	𝍸	
Cheese and onion	𝍸 |||	
Salt and vinegar	||	
Prawn cocktail	𝍸 ||	

b. Use the data in this frequency table to draw a bar chart on the grid below. (1 mark)



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c. Which was the most popular flavour of crisp?

_____ (1 marks)

d. There are 29 children in the class. How many children did not vote on their favourite flavour of crisp?

_____ (2 marks)

25. Alice and Jack went to the shop. They each had £10 to spend.

Pack of cards £3.25	Drink £1.70	Notebook £2.50	Sweets 85p

a. Alice bought one of each item. How much did she spend in total?

_____ (2 marks)

b. Jack bought 2 notebooks, 1 drink and 1 pack of cards. Will he have enough money for some sweets? Show your working out.

_____ (2 marks)

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26. **A theatre play is scheduled to start at 7.15pm and runs for 2 hours 15 minutes. The play starts 30 minutes late. What time will the play finish? Give your answer in digital time.**

_____ (2 marks)

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Mathematics Marking Scheme

Total marks: 78

For questions where two marks are available, one mark should be awarded for a correct answer, and one mark given for showing working.

1. 7060, 7016, 7006, 6700, 6017, 6007

2.
   a. c1380
   b. 6025

3.
   a. 164, 174,
   b. 78, 89
   c. 104, 84,
   d. 3071, 2071

4.
   a. >
   b. <
   c. >
   d. <

5.
   a. 523
   b. 434
   c. 27
   d. 54
   e. 54
   f. 33

6. 68
7. £120

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8.
   a. 24
   b. 36
   c. 6
   d. 8

9. Possible numbers circled: 40, 16, 36, 56
10. Possible combinations: 35 and 95, 45 and 85, 75 and 55

11.
   a. 5,600
   b. 5,000
   c. 67,000
   d. 12

12. 168
13. 34
14. 45 minutes

15.
   a. 520
   b. 212
   c. 24
   d. 128
   e. 36

16.
   a. 1
   b. 4
   c. 8

17. £80
18. £62.80
19. $\frac{1}{3}$

20.
   a. 20

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b. 170
c. 560

21. The long hand should point to the 9. The short hand should point between the 5 and 6.
22. 6700 grams
23. 45 metres

24.
a.

Colour	**Tally**	**Frequency**
Ready salted		5
Cheese and onion		8
Salt and vinegar		2
Prawn cocktail		7

b. Bars should be drawn along to correspond with the data in the table.
c. Cheese and onion
d. 7

25.
a. £8.30
b. No. He will not be able to afford sweets. Working out should show: £2.50 +£2.50+£1.70+£3.25 = £9.95
£10.00-£9.95 = 10p

26. 10.00 pm

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