



8 + Entrance Examination

Paper 3

Numeracy / Maths

Total marks: 77

Time allowed: 40 minutes

Full name

1. Write the number 5067 in words.

_____ (1 mark)

2. Write the number 9001 in words.

_____ (1 mark)

3. Complete the missing numbers in the sequences below: (5 marks)

a. 350, 340, 330, 320, _____, _____

b. 61, 71, 81, 91, _____, _____

c. 34, 38, 42, 46, _____, _____

d. 112, 113, 115, 118, 122, _____, _____

e. 45, 50, 48, 53, 51, 56, _____, _____

4. Write these numbers in order of value from smallest to largest:

9001 8119 8091 9081 9000 8919

_____ (1 mark)

5. Round these numbers to the nearest 10:

a. 73 _____ (1 mark)

b. 185 _____ (1 mark)

6. Round these numbers to the nearest 100:

a. 831 _____ (1 mark)

b. 555 _____ (1 mark)

7. Round these numbers to the nearest 1000:

a. 7844 _____ (1 mark)

b. 5050 _____ (1 mark)

8. Use any method you choose to answer the following questions. You can show your working on the right hand side of the page.

a. $456 + 127 =$ _____ (2 marks)

b. $8 \times 6 =$ _____ (2 marks)

c. $9 \times 7 =$ _____ (2 marks)

d. $872 - 25 =$ _____ (2 marks)

e. $82 \times 3 =$ _____ (2 marks)

9. 68 passengers are going on a coach trip. Each coach seats 20 people. How many coaches will be required to take all the of the passengers?

_____ (2 marks)

10. Use the written method of division to answer the question below, giving a remainder in your answer if necessary. Write your final answer on the line next to the question.

$6\overline{)78}$ _____ (2 marks)

11. A parcel weighs 64 kilograms. How much will 3 parcels weigh?

_____ (2 marks)

12. Joe had £120. He spent a third of his money on a computer game. How much did the computer game cost?

_____ (2 marks)

13. How much larger is 504 than 4? _____ (1 mark)

14. What number is 10 less than 103? _____ (1 mark)

15. Write four number sentences replacing \triangle and \bigcirc with different numbers.
(2 marks)

$$\triangle + \bigcirc = 12$$

- _____
- _____
- _____
- _____

**16. In questions a to f work out the answers and write your answers on the line.
You can show your working, on the right hand side, if you wish. (12 marks)**

a. $63 \times 100 = \underline{\hspace{2cm}}$

b. $3600 \div 20 = \underline{\hspace{2cm}}$

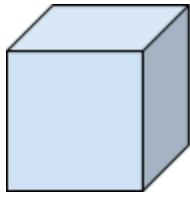
c. $34 + \underline{\hspace{2cm}} = 25 + 39$

d. $6 \times 5 = \underline{\hspace{2cm}} \times 3$

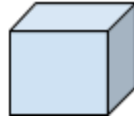
e. $50 + 15 = \underline{\hspace{2cm}} - 12$

f. $22 \times 5 = \underline{\hspace{2cm}} \times 11$

17. How much heavier is Box 1 than Box 2?



Box 1
452g



Box 2
228g

_____ (2 marks)

18. Harriet's dad goes to the supermarket at 16:20 and returns at 18:10. How long did his supermarket trip take? Give your answer in hours and minutes.

_____ (2 marks)

19. Ethan eats $\frac{4}{10}$ of his birthday cake. His sister eats $\frac{2}{10}$ of his birthday cake. (2 marks)

a. How much cake have the children eaten altogether? _____

b. How much of the cake is left for the rest of the family? _____

20. On the line below, write the analogue time, in words, that the digital clock face is showing.



_____ (1 mark)

21. I double a number and then add 9. The answer is 41.

What is the number? _____ (2 marks)

22. I multiply a number by 4 and then add 6. The answer is 38.

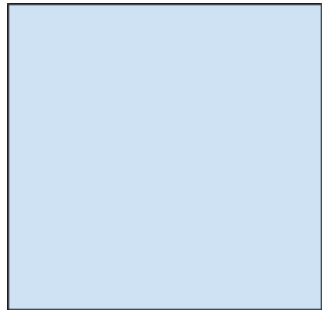
What is the number? _____ (2 marks)

23. Draw all possible lines of symmetry on the following shapes: (2 marks)

a.



b.



24. A box of building blocks contains only yellow blocks, blue blocks, green blocks and red blocks. Half of the blocks are blue. There are also 3 yellow blocks, 2 green blocks and 5 red blocks. How many blocks are there altogether?

_____ (2 marks)

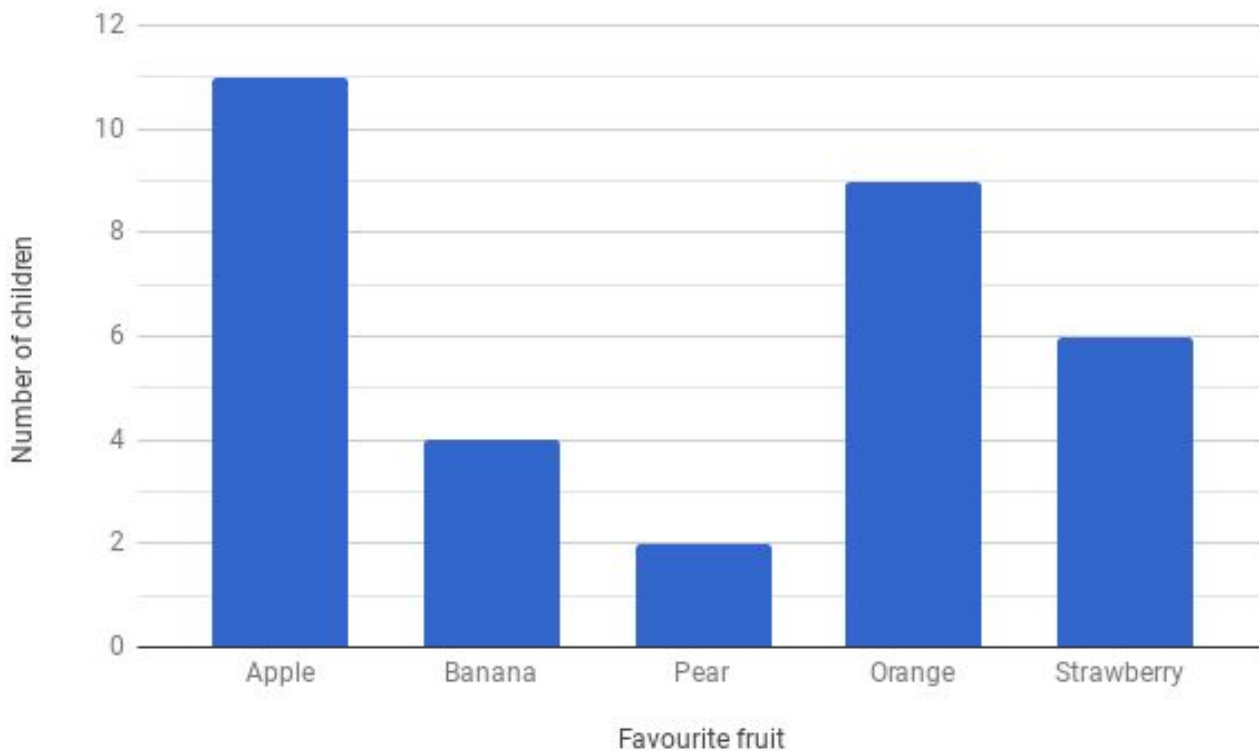
25. What is $\frac{3}{4}$ of 48?

_____ (1 mark)

26. Write $\frac{18}{24}$ in its simplest form.

_____ (1 mark)

27. A class of children voted on their favourite fruit. The results are recorded in the bar chart below. (4 marks)



- a. How many children chose an orange as their favourite fruit?

- b. Which was the most popular fruit? _____
- c. How many more children chose strawberries than pears? _____
- d. What is the total number of children that voted on their favourite fruit?

28. Jayden is 134 cm tall. Michaela is 29 cm taller than Jayden. How tall is Michaela?

_____ (2 marks)

29. Isabel had to write a story of 400 words. On the first day she wrote 26 words. On the second day she wrote 118 words. How many words has she got left to write?

_____ (2 marks)

30. Train tickets cost £8 for a child and £15 for an adult. If Mum has £80 pounds cash and then buys tickets for 2 adults and 4 children, how much money does she have left over?

_____ (2 marks)

31. There are 87 children that want to go on a trip, but only 6 coaches to take them. If each coach seats 14 children, how many children will not be able to go on the trip?

_____ (2 marks)

**8 + Entrance Examination
Paper 3
Mathematics Marking Scheme**

Total marks: 77

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

1. Five thousand and sixty seven
2. Nine thousand and one

3.
 - a. 310, 300
 - b. 101, 111
 - c. 50, 54
 - d. 127, 133
 - e. 54, 59

4. 8091, 8119, 8919, 9000, 9001, 9081

5.
 - a. 70
 - b. 190

6.
 - a. 800
 - b. 600

7.
 - a. 8000
 - b. 5000

8.
 - a. 583
 - b. 48
 - c. 63
 - d. 847
 - e. 246

9. 4

10. 13

11. 192 kg

12. £40

13. 500

14. 93

15. Any four of the following combinations: 1+11, 2+10, 3+9, 4+8, 5+7

16.

a. 6300

b. 180

c. 30

d. 10

e. 77

f. 10

17. 224g

18. 1 hour 50 minutes

19.

a. $\frac{6}{10}$ or $\frac{3}{5}$

b. $\frac{4}{10}$ or $\frac{2}{5}$

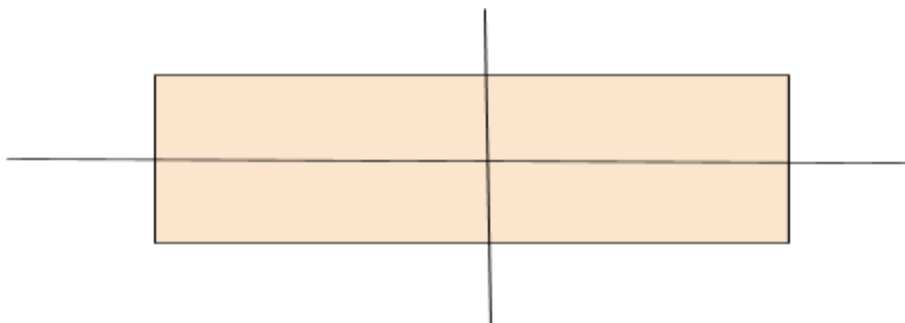
20. Forty five minutes past twelve or A quarter to one

21. 16

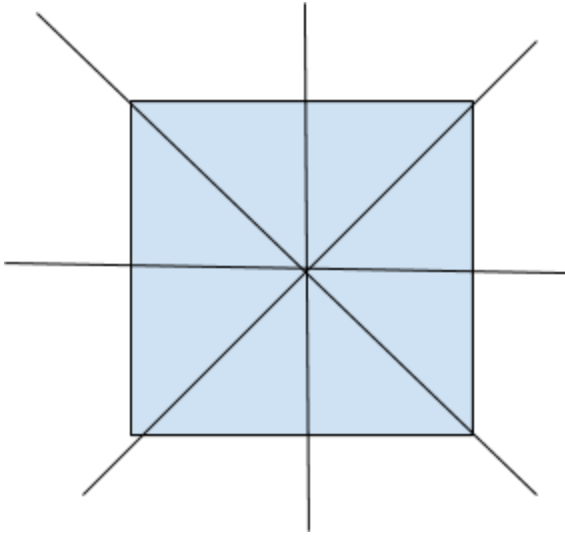
22. 8

23.

a.



b.



24. 20 blocks

25. 36

26. $\frac{3}{4}$

27.

a. 9

b. Apple

c. 4

d. 32

28. 163cm

29. 256

30. £18

31. 3