



8 + Entrance Examination

Paper 6

Numeracy / Maths

Total marks: 67

Time allowed: 40 minutes

Full name

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

5459 4559 4955 5549 4495 5944

- 2. Circle the number which has the highest number of 100s:**

a. 1321 2132 1281 (1 mark)

b. 7156 5256 6571 (1 mark)

- 3. Write your answers on the line. You can show your working on the right hand side. (6 marks)**

a. $45 + 448 =$ _____

b. $653 - 249 =$ _____

c. $63 + 25 =$ _____

d. $35 +$ _____ $= 50 + 50$

e. $34 + 12 + 8 + 5 =$ _____

f. $1001 + 100 =$ _____

4. Add one hundred and one to nineteen, then halve the answer.

_____ (2 marks)

5. Ethan has 24 sweets. He gives $\frac{1}{4}$ of the sweets to his friend.

a. How many sweets does Ethan give to his friend? _____ (1 mark)

b. How many sweets does Ethan have left? _____ (1 mark)

6. There are 216 children in the hall. One class of 33 children leaves. How many children are left in the hall?

_____ (2 marks)

7. 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 under the question.

$$3 \overline{)143}$$

_____ (2 marks)

8. Write $\frac{18}{21}$ in its simplest form. _____ (1 mark)

9. In each row, work out what is missing and write your answer on the line: (5 marks)

a. 79, 70, 61, 52, _____, _____

b. 4001, 5001, 6001, 7001, _____, _____

c. 3, 6, 12, 24, _____, _____

d. 4.5, 5.0, 5.5, 6.0, 6.5, _____, _____

e. 10.30am, 10.15am, 10.00am, 9.45am, 9.30am, _____, _____

10. What is $\frac{7}{8} - \frac{4}{8}$?

_____ (1 mark)

11. Write your answers on the line. You can show your working on the right hand side. (5 marks)

a. $64 \times 7 =$ _____

b. $3 \times 153 =$ _____

c. $72 \div 4 =$ _____

d. Double 84 = _____

e. $22 \times 3 = \underline{\hspace{2cm}} \times 2$

12. Arwin has £114. She spends £16 on a book and £25 on a coat. How much money does she have left?

_____ (2 marks)

13. How many whole apples would twelve quarter- apples make?

_____ (2 marks)

14. There are 33 parents coming to watch the show. If one bench seats 6 parents, how many benches will be needed to seat all the parents?

_____ (2 marks)

15. Fill in the missing numbers to make the following fractions equivalent: (2 marks)

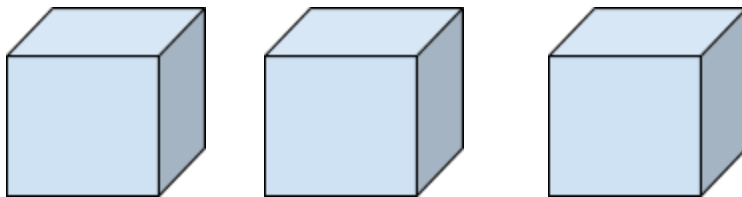
a. $\frac{2}{4} = \frac{?}{2}$? = _____

b. $\frac{6}{9} = \frac{?}{3}$? = _____

16. Leyla starts her homework at 16:20 and finishes it at 17:40. How long has her homework taken? Give your answers in hours and minutes.

_____ (2 marks)

17. What is the total combined number of square faces on these three cubes?



_____ (2 marks)

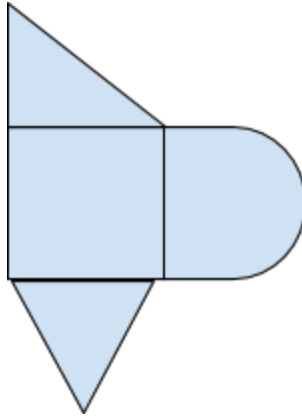
18. Mrs Bell has 86 booklets to give out. She gives half of them to Sally, 6 to Beth and 7 to Archie. How many booklets has Mrs Bell still got to give out?

_____ (2 marks)

19. It takes Mrs Bell 3 minutes to give out 10 booklets. How many minutes will it take her to give out 30 booklets?

_____ (2 marks)

20. How many right angles can you see in these shapes?



_____ (1 mark)

21. Ashley buys some jeans for £25.20, some shoes for £17.40 and a t-shirt for £5.10. How much does he spend altogether?

_____ (2 marks)

22. Round 2854: (3 marks)

a. To the nearest 10 _____

b. To the nearest 100 _____

c. To the nearest 1000 _____

23. Pupils from Oaklands Primary School go on a school trip to the museum. If the pupils fill up 6 minibuses and there are 14 pupils in each minibus, how many pupils are there altogether on the trip?

_____ (2 marks)

24. Tim is 178 centimetres tall. How tall is he in metres?

_____ (1 mark)

25. Patch the dog weighs 4.2 kilograms. How much does he weigh in grams?

_____ (1 mark)

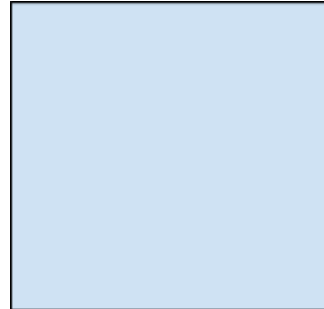
26. Read the time on the clock face below. What time will it be in $3\frac{1}{2}$ hours from now? Give your answer in digital time.

_____ (2 marks)



27. How many lines of symmetry does a square have?

_____ (1 mark)



28. It took John three years to train to be a journalist. How many months did his training take?

_____ (1 mark)

29. Joshua goes to a cafe. A cup of tea costs him £2.10 and a cake costs him twice as much as the tea.

a. How much does the tea and cake cost him altogether?

_____ (2 marks)

b. If Joshua pays with a £10 note, how much change will he receive?

_____ (2 marks)

30. I start with a number. I multiply the number by 4 and then take away 20. The answer is 16. Which number did I start with?

_____ (2 marks)

31. 9 cones are equally spaced along a running track. The distance from the first to the third is 600m. How far is it from the first cone to the last cone?

_____ (2 marks)

**8 + Entrance Examination
Paper 6
Mathematics Marking Scheme**

Total marks: 67

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

1. 4495, 4559, 4955, 5459, 5549, 5944

2.

- a. 1321
- b. 6571

3.

- a. 493
- b. 404
- c. 88
- d. 65
- e. 59
- f. 1101

4. 60

5.

- a. 6
- b. 18

6. 183

7. $47r^2$

8. $\frac{6}{7}$

9.

- a. 43, 34
- b. 8001, 9001
- c. 48, 96
- d. 7.0, 7.5
- e. 9.15am, 9.00am

10. $\frac{3}{8}$

11.

- a. 448
- b. 459
- c. 18
- d. 168
- e. 33

12. £73

13.3

14.6

15.

- a. 1
- b. 2

16.1 hour 20 minutes

17.18

18.30

19.9 minutes

20.7

21. £47.70

22.

- a. 2850
- b. 2900
- c. 3000

23.84

24.1.78 metres

25.4200 grams

26.12:45

27.4

28.36 months

29.

- a. £6.30

b. £3.70

30.9

31. 1800 metres