8 + Entrance Examination

Paper 6

Numeracy / Maths

Total marks: 67

Time allowed: 40 minutes

Full name .....

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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 = _____

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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)

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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 x 7 = _____

    b. 3 x 153 = _____

    c. 72 ÷4 = _____

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d. Double 84 = _____

e. 22 x 3 = _____ x 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. $\frac{2}{4} = \frac{?}{2}$? = _____

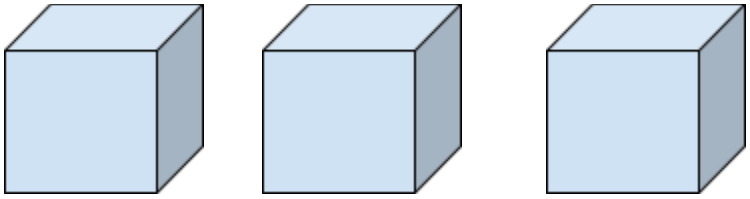
b. $\frac{6}{9} = \frac{?}{3}$? = _____

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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?**

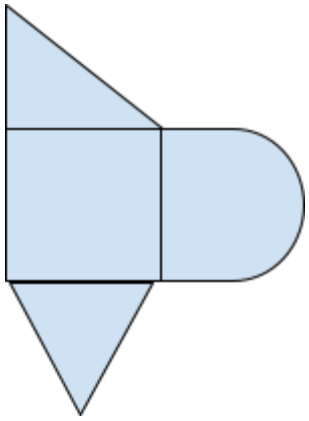
_____ (2 marks)

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)

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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 _____

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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?

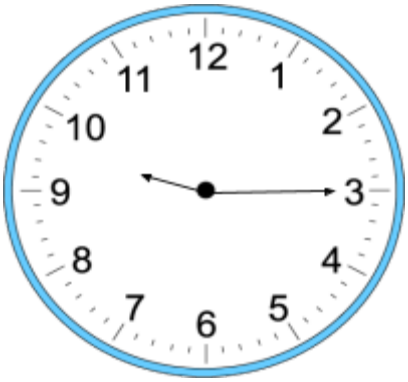
_____ (1 mark)

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.

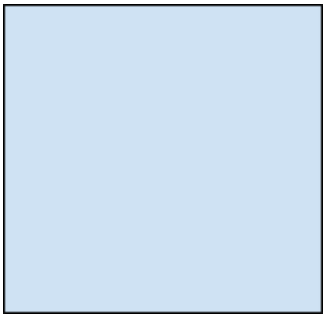
_____ (2 marks)



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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)

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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)

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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. 47r2
8. $\frac{6}{7}$
9.
   a. 43, 34
   b. 8001, 9001
   c. 48, 96
   d. 7.0,7.5
   e. 9.15am, 9.00am

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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

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b. £3.70

30. 9
31. 1800 metres

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