8 + Entrance Examination

Paper 1

Numeracy / Maths

Total marks: 79

Time allowed: 40 minutes

Full name .....

1. **Write the following in words:** (2 marks)

   a. 5431 _____

   b. 2005 _____

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

   4211 3003 4112 4121 3030 3421

   _____

3. **What is the value of the underlined digit in the following?** (2 marks)

   a. 5<u>4</u>89 _____

   b. 200<u>3</u> _____

4. **Use the column addition method to solve the problems below. Write your answers on the lines. You can show your working on the right hand side:** (2 marks)

   a. 458 + 26 = _____

   b. 61 + 189 = _____

5. **Matthew has £546. He goes to a restaurant and spends £11 on a meal. How much money does he have left?** (2 marks)

_____

6. **Solve the following calculations. Write your answers on the line. You can show your working on the right hand side.** (10 marks)

   a. 55 + _____ = 151

   b. 142 + 100 = _____

   c. 690 ÷ 10 = _____

   d. 300 + 700 = 250 + _____

   e. 65 -_____ = 24 + 18

7. **A baker packs a batch of cakes into boxes. She packs them into 8 boxes and each box contains 6 cakes. How many cakes does the baker pack altogether?** (2 marks)

_____

8. **Ayanna has £131. Lauren has £67 less than Ayanna. How much money does Lauren have?** (2 marks)

_____

9. **Jack has 34 marbles. He buys 16 more but gives 8 to a friend. How many marbles does Jack have left?** (2 marks)

_____

10. **Fill in the answers to the following questions:** (4 marks)

    a. 4 x 8 = _____

    b. 3 x 6 = _____

    c. 49 ÷ 7 = _____

    d. 144 ÷ 12 = _____

11. **Fill in the blank in the following calculation:** (2 marks)

    26 x 4 = _____ x 2

12. **In each row, complete the number sequence and write your answer on the line:** (5 marks)

    a. 12, 16, 20, _____ , 28, 32, 36

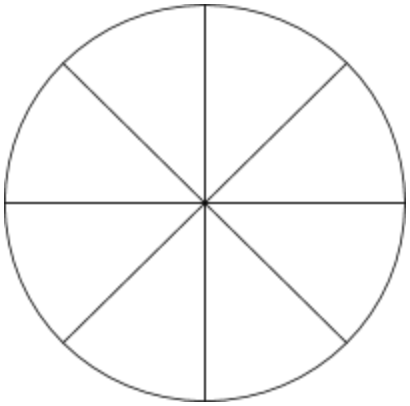
    b. 48, 45, 42, _____ , 36, 33

    c. 4, 5, 7, 10, 14, _____

    d. 96, 48, 24, 12, _____

    e. 1 + 8, _____ , 3 + 6, 4 + 5, 5 + 4, 6 + 3

13. Shade $\frac{2}{8}$ of the shape below: (1 mark)



14. How many whole cakes would sixteen quarter cakes make? (2 marks)

_____

15. Ash has 120 sweets. He gives $\frac{1}{3}$ of the sweets to his friend. (4 marks)

a. How many sweets does Ash give to his friend? _____

b. How many sweets does Ash have left? _____

16. Write the fraction $\frac{12}{16}$ in its simplest form. (1 mark)

_____

17. What is $\frac{3}{8}$ + $\frac{4}{8}$? (1 mark)

_____

18. Write your answers on the line. You can show your working on the right hand side. (8 marks)

a. 64 x 6 = _____

b. 8 x 71 = _____

c. 69 ÷ 3 = _____

d. 72 ÷ 6 = _____

19. **It takes Mr Jones 35 minutes to walk to work. What is the latest time that he can leave his house to get to work for ten minutes to nine? Give your answer in digital time.** (2 marks)

_____

20. **Julie buys a skirt and a jacket and the total price comes to £54.20. If the jacket cost £41.10, how much did the skirt cost?** (2 marks)

_____

21. **Use two of the numbers below each time to make an answer of 28. (You may use a number more than once).** (4 marks)

7 16 12 4 35 112

a. _____ + _____ = 28

b. _____ - _____ = 28

c. _____ x_____ = 28

d. _____ ÷_____ = 28

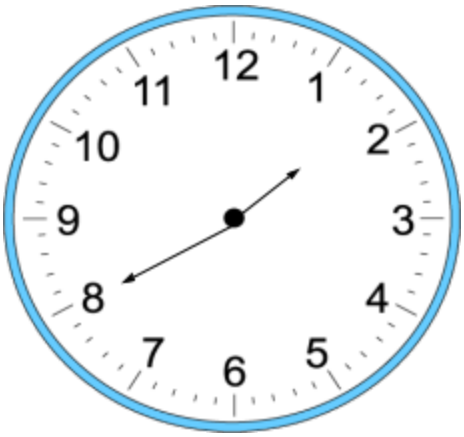
22. **Jen drives 26 kilometres to work. David drives twice the distance that Jen drives. How much further does David drive than Jen?** (2 marks)

_____

23. **It takes me 15 minutes to walk one kilometre. How many kilometres would I walk in 1 hour 15 minutes?** (2 marks)

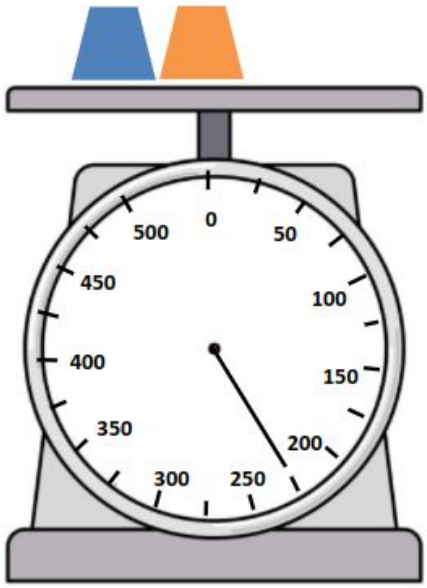
_____

24. **Write the digital time shown on the clock face below.** (1 mark)



_____

25. Write down the mass in grams shown on the scales below: (1 mark)



_____g

26. Answer the following questions: (3 marks)

a. How many centimetres (cm) are there in $1\frac{1}{2}$ metres? _____

b. How many grams (g) are there in 4 kilograms? _____

c. How many metres (m) are there in $1\frac{1}{4}$ kilometres? _____

27. **Three children ate a total of 25 strawberries. Each of them ate a different odd number of strawberries. How many strawberries did each of the children eat? Write down three different possible combinations.** (3 marks)

a. Combination 1: _____ , _____ , _____

b. Combination 2: _____ , _____ , _____

c. Combination 3: _____ , _____ , _____

28. **38 children are going to the museum in minibuses. Each minibus seats 6 children. How many minibuses will be required?** (2 marks)

_____

29. **My mum is buying tickets for the cinema. Tickets cost £12 for an adult and £7 for a child. My mum has £55.70 in cash.** (4 marks)

a. How much will the tickets cost for two adults and two children?

_____

b. If my mum pays with cash, how much money will she have left?

_____

8 + Entrance Examination
Paper 1
Mathematics Marking Scheme

Total marks: 79

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

1.
   a. Five thousand, four hundred and thirty one
   b. Two thousand and five

2. 3003, 3030, 3421, 4112, 4121, 4211

3.
   a. 400
   b. 3

4.
   a. 484
   b. 250

5. £535

6.
   a. 96
   b. 242
   c. 69
   d. 750
   e. 23

7. 48
8. £64
9. 42

10.
   a. 32
   b. 18

c. 7
d. 12

11. 52

12.
a. 24
b. 39
c. 19
d. 6
e. 2+7

13. Any two sections of the shape should be shaded.

14. 4
15.
a. 40
b. 80

16. $\frac{3}{4}$
17. $\frac{7}{8}$

18.
a. 384
b. 568
c. 23
d. 12

19. 8:15
20. £13.10
21.
a. 16 + 12 = 28
b. 35 - 7 = 28
c. 7 x 4 = 28
d. 112 ÷ 4 = 28

22. 26 kilometres
23. 5 kilometres
24. 1:40

25. 225g

26.
    a. 150cm
    b. 4000g
    c. 1250m

27. Accept all combinations where 3 different odd numbers equal 25
28. 7

29.
    a. £38
    b. £17.70