8 + Entrance Examination

Paper 7

Numeracy / Maths

Total marks: 68

Time allowed: 40 minutes

Full name .....

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1. **What is the value of the 2 in 6297?** _____ (1 mark)

2. **Write the following in figures:** (2 marks)

   a. Six thousand, two hundred and ninety one _____

   b. Four thousand and twenty _____

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

   a. 4321 ☐ 4213

   b. 5021 ☐ 5012

   c. ¼ ☐ ½

   d. ²/₄ ☐ ½

4. Write your answers on the lines. You can show your working on the right hand side. (12 marks)

   a. 63 x 9 = _____

   b. 36 ÷6 = _____

   c. 5 + 8 + 3 + 2 = _____

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d. 31 + _____ = 45 + 39

e. 45 - _____ = 18

f. 50 - 15 = 17 + _____

5. Alex has £542. Omari has £229 more than Alex. How much money does Omari have?

_____ (2 marks)

6. Emma has 616 sweets in her jar. She gives 221 of these sweets to her friend. How many sweets does Emma have left?

_____ (2 marks)

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7. **Write your answers on the lines. You can show your working on the right hand side.** (5 marks)

   a. 514 x 100 = _____

   b. 14 x 200 = _____

   c. 20 x 300 = _____

   d. 2800 ÷ 10 = _____

   e. 4200 ÷ 200 = _____

8. **There are 28 children in a class. Each table in the class seats 7 children. How many tables are needed to seat all the children in the class?**

_____ (2 marks)

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9. **Mr Green splits his PE class in to 5 teams. There are 6 children in each team. How many children are there in total in the PE class?**

_____ (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 under the question.**

$$67 \div 5$$

_____ (2 marks)

11. **For each row, work out what is missing and fill in the spaces:** (5 marks)

    a. 6, 12, 18, 24, 30, _____ , _____ , _____

    b. 66, 55, _____ , _____ , 22, 11, 0

    c. 67, 58, 49, _____ , _____ , 22

    d. 141, 131, 121, _____ , _____ , 91, 81

    e. 13, 14, 16, 19, 23, 28, _____ , _____

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12. **Muhammed has £48. He gives ¼ of his money to charity. How much money does he have left?**

_____ (2 marks)

13. **What is $\frac{6}{10} + \frac{2}{10}$?** _____ (1 mark)

14. **What is $\frac{2}{3}$ of 36 ?** _____ (1 mark)

15. **What is 54 rounded to the nearest 10?** _____ (1 mark)

16. **What is 541 rounded to the nearest 10?** _____ (1 mark)

17. **What is 854 rounded to the nearest 100?** _____ (1 mark)

18. **Sara has £24.75 in her purse. She spends £5.50 on a DVD. How much money does she have left?**

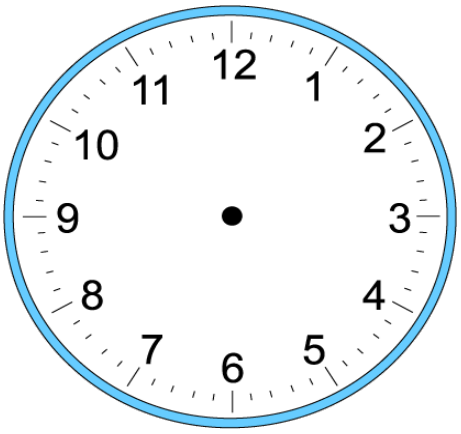
_____ (2 marks)

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19. **Sam goes to the cinema and buys a ticket for £7.25. He pays with a £10 note. How much change should he receive?**

_____ (2 marks)

20. **Draw the hands of the clock on to the clock face below to show a time of 11:35 am:** (1 mark)



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21. **Charlie started her homework at 3:45 pm. Her homework took her 1 hour and 30 minutes to complete. What time did she finish her homework? Write the answer in digital time.**

_____ (2 marks)

22. **Liam is 25 years younger than his dad. Liam's dad is 35. How old is Liam?**

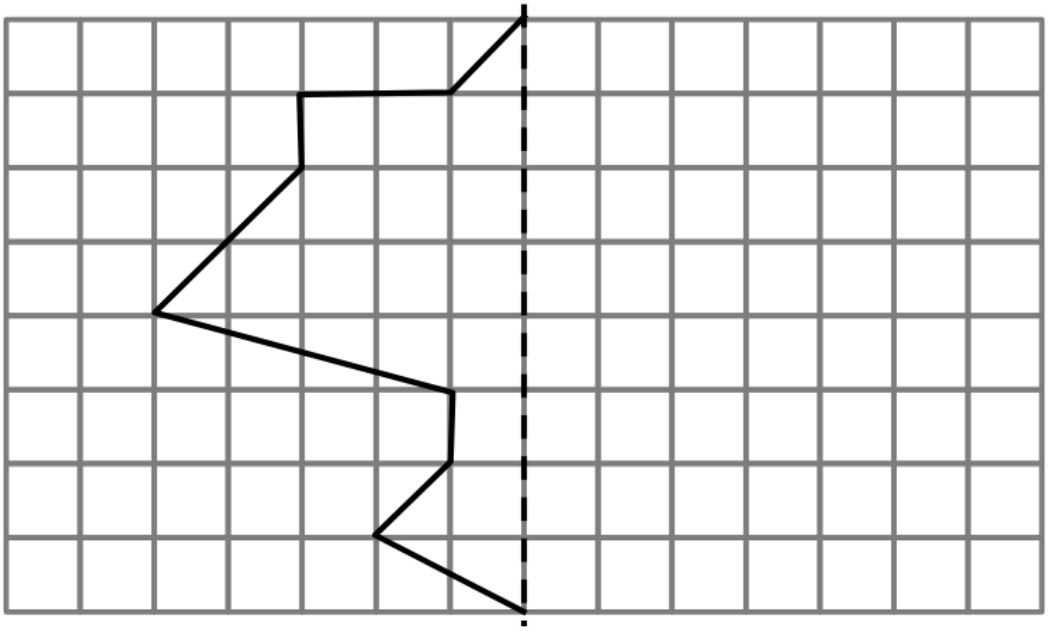
_____ (2 marks)

23. **Use a ruler to measure the length of the line below to the nearest half centimetre.**

Write your answer here: _____ cm. (1 mark)

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24. Draw the mirror image of the shape on the grid below: (1 mark)



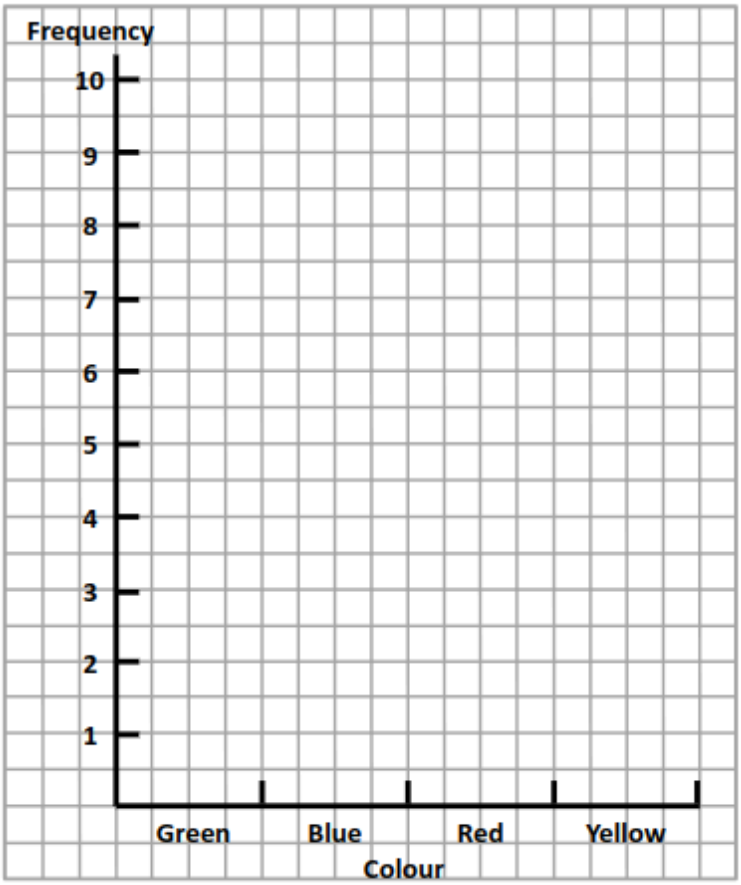
25. A class of children voted on their favourite colour. They collected their results in the frequency table below.

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

Colour	**Tally**	**Frequency**
Green		5
Blue		9
Red		2
Yellow		7

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b. Use the data in this frequency table to draw a bar chart on the grid below: (2 marks)



26. Mr Blake's fence was 6m 60cm long once complete. It took three days to build the fence. The same length of fence was built each day. What length of fence did Mr Blake build each day? Give your answer in metres and centimetres.

_____ (2 marks)

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27. **Anna is 9cm taller than Reyhan. Louise is 11cm shorter than Anna. Reyhan is 135cm tall. How tall is Louise? Give your answer in centimetres.**

_____ (2 marks)

28. **The farmer wants to pack 38 eggs in to boxes. Each box can hold 6 eggs. How many boxes will the farmer need?**

_____ (2 marks)

29. **The school morning runs from 9.00 - 12.00. There are two breaks of 10 minutes and the rest of the time children are in class. Exactly how long are the children in class each morning? Give your answer in hours and minutes.**

_____ (2 marks)

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8 + Entrance Examination
Sample paper
Mathematics Marking Scheme

Total marks: 68

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

1. 200

2.
   a. 6291
   b. 4020

3.
   a. >
   b. >
   c. <
   d. =

4.
   a. 567
   b. 6
   c. 18
   d. 53
   e. 27
   f. 18

5. £771
6. 395

7.
   a. 51,400
   b. 2800
   c. 6000
   d. 280
   e. 21

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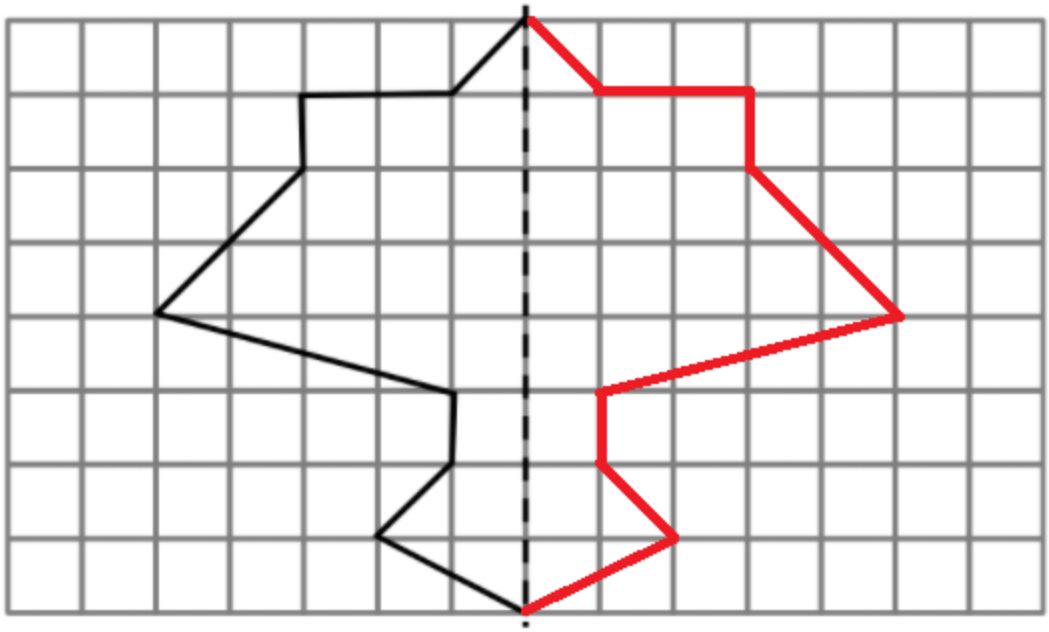
8. 4
9. 30
10. 13r2

11.
    a. 36, 42, 48
    b. 44, 33
    c. 31, 22
    d. 111, 101
    e. 34, 41

12. £36
13. $\frac{8}{10}$
14. 24
15. 50
16. 540
17. 900
18. £19.25
19. £2.75
20. The little hand should be pointing approximately halfway between 11 and 12. The big hand should be pointing to the number 7.
21. 5.15pm
22. 10 years old
23. 6cm

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24. 1 mark for mirror image drawn correctly

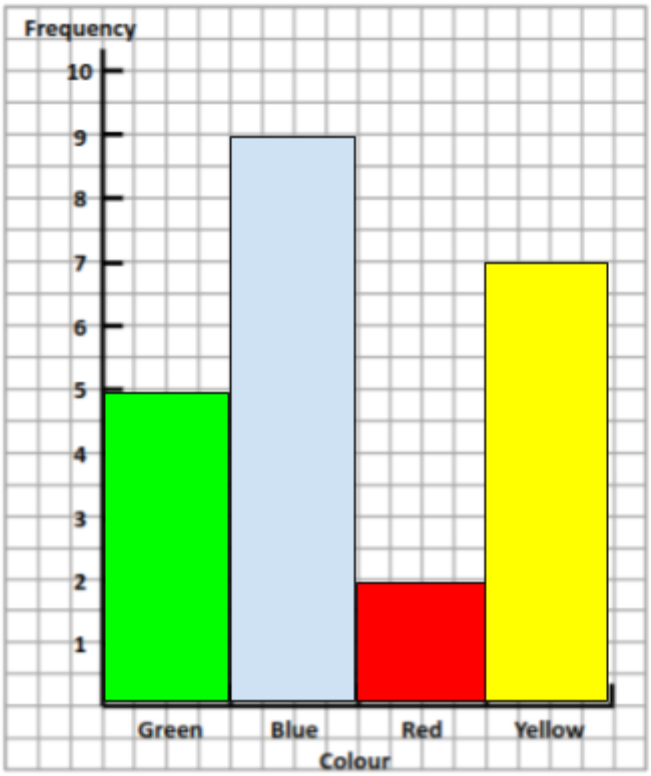


25. a.

Colour	Tally	Frequency
Green	𝍸	5
Blue	𝍸 ||||	9
Red	||	2
Yellow	𝍸 ||	7

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B.



26. 2m 20cm
27. 133cm
28. 7 boxes
29. 2 hours 40 minutes

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