7 + Entrance Examination

Paper 2

Numeracy / Maths

Total marks: 80

Time allowed: 1 hour

Full name .....

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Answer the questions below. You can show your working in the space provided. You may not use a calculator.

1a. 12 + 7 = _____

b. 18 – 3 = _____

c. 21 + 9 = _____

d. 54 – 26 = _____

e. _____ + 2 = 8

f. _____ – 9 = 3

g. 18 + _____ = 31

h. 15 – _____ = 9

8 marks

2. Balance the equations below:

$5 + 2 = 3 + \square$

$15 - \square = 20 - 11$

$42 + \square = 62 - 13$

$40 + \square = 30 + 12$

4 marks

3a. 3 x 4 = _____

b. 15 x 10 = _____

c. 18 ÷ 2 = _____

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d. 20 x 4 = _____

e. 96 ÷ 3 = _____

5 marks

4. Match the figures to the words:

ninety seven	**318**
three hundred and eighteen	**222**
one hundred and thirteen	**97**
two hundred and twenty two	**113**

4 marks

5. Put the numbers into order from largest to smallest.

59 **504** **318** **91**

4 marks

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6. Complete the table:

	Number of tens	**Number of units**
70		
37		

4 marks

7 a. Ben has 17 sweets and Bob has 14 sweets. How many sweets do they have altogether? _____ 2 marks

b. Amy has been swimming 14 times over the summer holidays. Her sister Joanne has only been 5 times. How many more times has Amy been swimming than Joanne? _____ 2 marks

c. Samantha has 6 fewer pencils than Matthew. If Matthew has 31 pencils, how many does Samantha have? _____ 2 marks

d. Christopher makes 80 cakes. They need to be put into boxes. Each box holds five cakes. How many boxes will Christopher need? _____ 2 marks

e. Mrs Smith orders 8 boxes of glue sticks for each class. If there are 5 classes, how many boxes of glue sticks has she ordered altogether? _____ 2 marks

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8. The baker has 17 rolls in his shop in the morning. He puts 4 rolls into each bag.

a. How many full bags of rolls does he have?

_____ 2 marks

b. How many rolls are left over?

_____ 2 marks

c. If he sells each bag for £2, how much money will the baker make?

_____ 2 marks

9. Complete the number sequences.

12, 14, 16, 18, ☐

17, 15, 13, ☐, 9

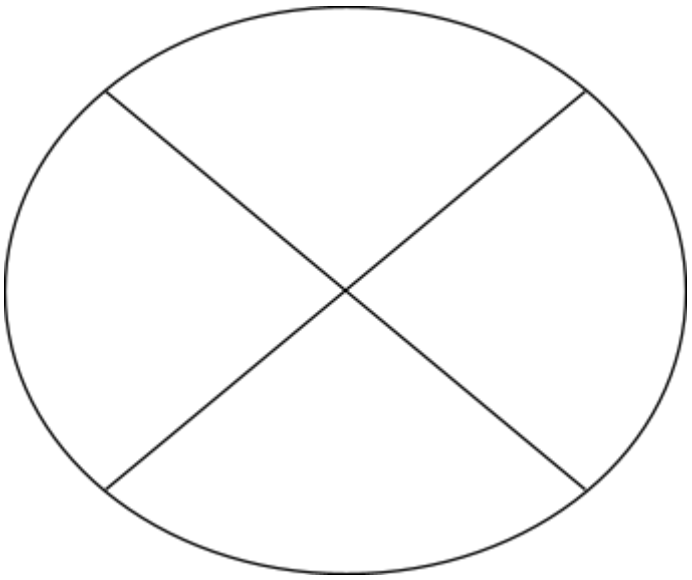
100, 80, 60, ☐

3, 4, 6, 9, ☐

4 marks

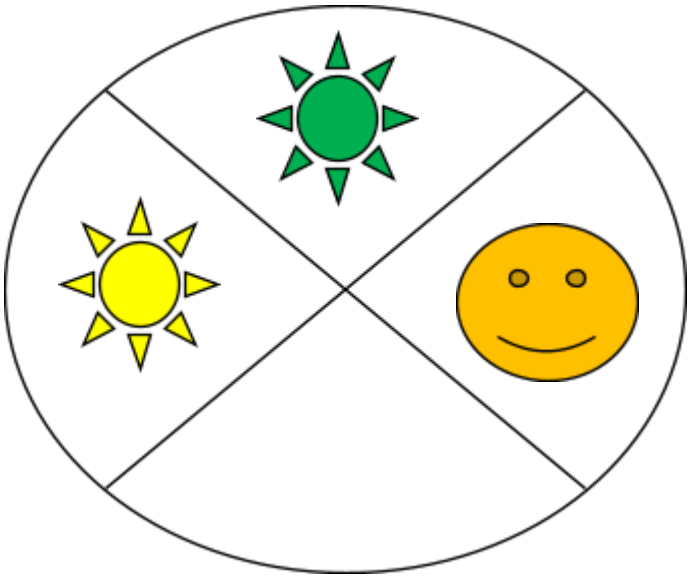
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10. Shade three quarters of the shape:



1 mark

11. Look carefully at this pattern:



a. What fraction of the circle has a **shape** in it? _____ 1 mark

b. What fraction of the circle has a **green** sun in it? _____ 1 mark

c. What fraction of the circle has a **smiley face** in it? _____ 1 mark

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12 Joe's chocolate bar is made up of 16 squares. He decides to share half of it with his friend. How many squares does Joe have? _____ 2 marks

13a. Chloe had 38p. She dropped 15p. How much money did she have left? _____ 2 marks

13b. Draw the coins that Chloe had left in this box:

1 mark

14. Lewis has 60p. James has £1.10. How much money do they have altogether? _____ 2 marks

15a. George's Mum gave him 60p and his Dad gave him 40p on Monday. They gave him the same amount of money on Tuesday and Wednesday. How much money did George have altogether? _____ 2 marks

b. Jane had £4.44. She gave a quarter to her friend. How much money did she give to her friend? _____ 2 marks

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16. Round the numbers to the nearest 10:

31 = _____ to the nearest 10

47 = _____ to the nearest 10

2 marks

17. Match the centimetres to the correct number of metres.

2m	**400cm**
4m	**200cm**
1 ½ m	**250cm**
2 ½ m	**150cm**

4 marks

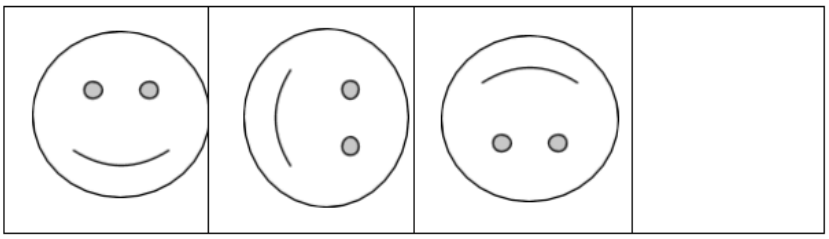
18. Write what time it is in words:

7:15	
9:30	

2 marks

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19. Complete the pattern:



2 marks

20. Complete the magic square by working out the magic number. The sums of the columns, rows and diagonals must be the same. The numbers 1-8 can only appear once in the square.

5	0	
		2
1	8	3

4 marks

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7 + Entrance Examination - Maths Paper 2 - Numeracy Mark Scheme

Total Marks: 80

1a. 19

b. 15

c. 30

d. 28

e. 6

f. 12

g. 13

h. 6

2a. 4

b. 6

c. 7

d. 2

3a. 12

b. 150

c. 9

d. 80

e. 32

4. One mark given for each correct answer

5. 504, 318, 91, 59

6.

	Number of tens	**Number of units**
70	7	0

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37	3	7

7. One point is given for a correct answer and one mark is given for showing working:

a. 31
b. 9
c. 25
d. 16
e. 40

8.

a. 4
b. 1
c. £8

9.

a. 20
b. 11
c. 40
d. 13

10. Mark given for three clear sections shaded.

11.

a. Three quarters or ¾
b. One quarter or ¼
c. One quarter or ¼

12. 8 (and one mark given for showing working out).

13.

a. 23p (one mark) and one mark given for showing working out.
b. 20p, 2p, 1p

14. £1.70 (one mark) and one mark given for showing working out.

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15.

a. £3
b. £1.11

16.

a. 30
b. 50

17.

2m = 200cm

4m = 400cm

1 1/2m = 150cm

2 1/2m = 250cm

18.

7:15 = quarter past seven

9:30 = half past nine

19. One mark for correct placement of mouth and one mark for correct placement of eyes.



20.

5	**0**	**7**
6	**4**	**2**
1	**8**	**3**

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