7 + Entrance Examination

Paper 7

Numeracy / Maths

Total marks: 84

Time allowed: 1 hour

Full name .....

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Answer the questions below. Don't forget to show your working.

1a. Grandma likes to knit mittens. Today she knitted 8 mittens. How many pairs was that? _____ 2 marks

b. Mum baked cookies and gave 3 each to Jim and Jane. How many cookies did Mum cook altogether? _____ 2 marks

c. There were 16 cars in the garage. As 6 drove away, 7 more drove in. How many cars are in the garage now? _____ 2 marks

d. John bought 20 sweets and decided to share them between him and his 4 friends. How many sweets does John have now? _____ 2 marks

e. Woodlands School have 6 minibuses. If each bus can hold 8 pupils, how many children can the buses hold altogether? _____ 2 marks

2a. Amy receives a sticker from her teacher after she has read 3 books. Amy has now read 9 books. How many stickers does she have in total? _____ 2 marks

2b. Amy has 9 stickers at the end of term. How many books has she read? _____ 2 marks

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3a. Ben is 20cm shorter than his sister Sally. Ben is 110cm tall. How tall is Sally? _____ 2 marks

b. Ben has 20 building blocks and decides to give a quarter of them to Sally. How many does Ben have left? _____ 2 marks

c. Sally goes to dancing lessons and Ben goes to football lessons. If Sally dances twice a week, how many times does she go dancing in 2 weeks? _____ 2 marks

4. Can you work out the answers to these sums? Put your answers in the box.

a. 14 + 12 = ☐

b. 17 – 9 = ☐

c. 6 + 16 = ☐

d. 11 - 9 = ☐

e. 8 + 6 = ☐

f. 53 – 8 = ☐

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g. 4 x 5 = ☐

h. 10 x 4 = ☐

i. 18 + 5 – 4 = ☐

j. 5 + 11 – 2 = ☐

k. 32 + 9 – 12 = ☐ 11 Marks

5. Add the correct symbol into the missing squares: x, +, -

a. 8 ☐ 4 = 4

b. 10 ☐ 10 = 20

c. 4 ☐ 0 = 0

d. 10 ☐ 2 = 8

e. 29 ☐ 12 = 17 5 marks

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6. Can you put the missing numbers into the boxes?

$$\begin{array}{r} 1\square \\ +\ 22 \\ \hline 35 \end{array} \qquad \begin{array}{r} 5\square \\ -1\ 3 \\ \hline 39 \end{array} \qquad \begin{array}{r} 43 \\ \times\ \ \ 3 \\ \hline \square 29 \end{array} \qquad \begin{array}{r} 24 \\ \times\ \ \square \\ \hline 1\square 0 \end{array}$$

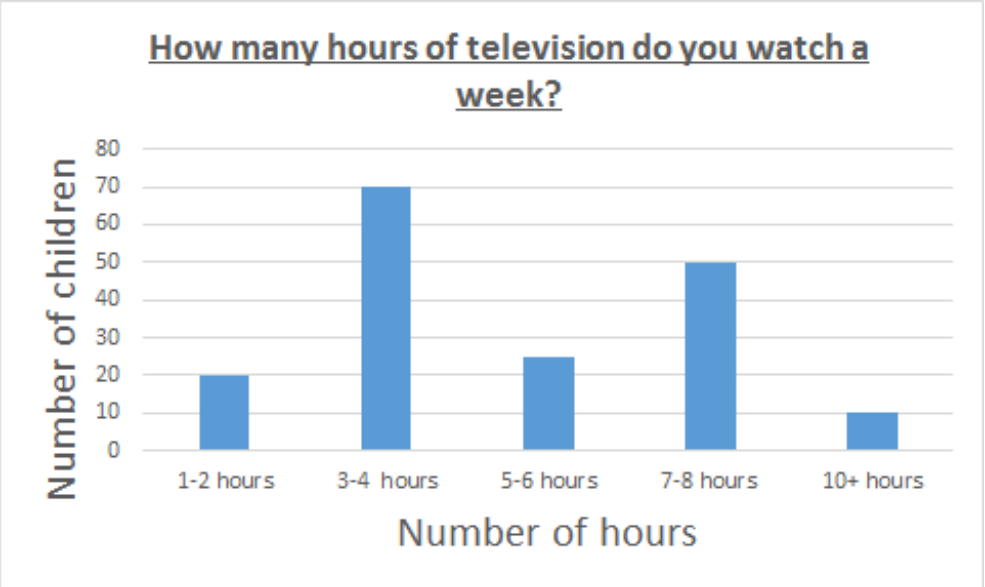
4, 8, 12, ☐, 20,

4, 8, ☐, ☐, 64

☐, 90, 81, 73, ☐, 60, ☐, 51, 48, 46, 45

11 marks

7. The bar graph below shows how many hours of television the children of Woodlands School watched in a week.



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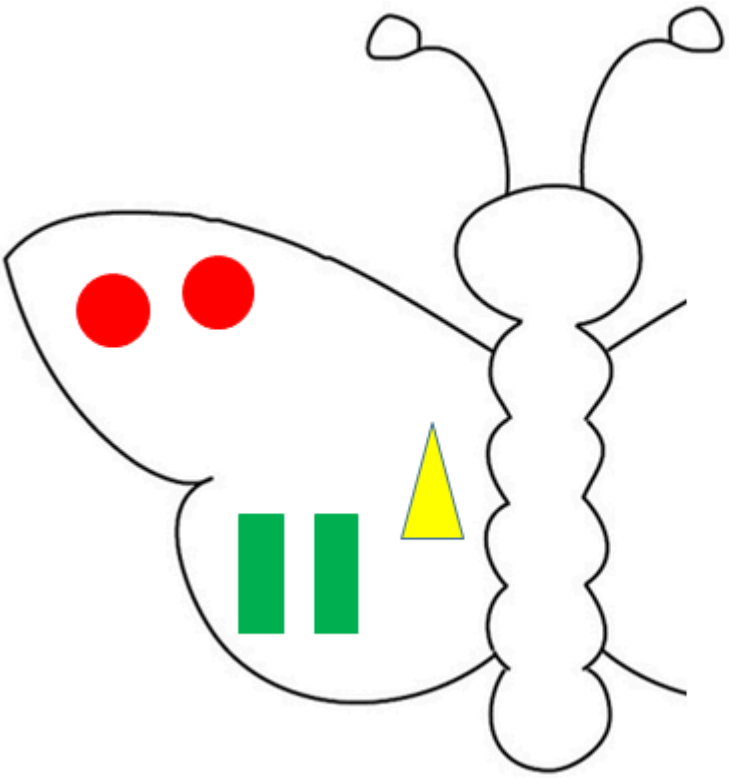
a. How many children watched 1 – 2 hours of television a week? _____ 1 mark

b. Estimate how many children watched television 5-6 hours a week _____ 1 mark

c. How many more children watched 3-4 hours television compared to those who watched 10 + hours of television? _____ 1 mark

d. How many hours are in a day? _____ 1 mark

8. Can you make the butterfly symmetrical?



4 Marks

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9.



35p



22p



30p



£1.50

a. Toby went to the school fair. His mum gave him £1 and two 50 pence pieces. He wanted to buy the car for himself, the doll for his sister and one bear for his baby brother. Did he have enough to buy them all?

_____ 2 marks

b. How much would it cost Toby if he wanted to buy the car, the teddy and the ball?

_____ 2 marks

c. How many teddies could Toby buy with £1?

_____ 2 marks

d. In the end, Toby decided to buy the doll and the ball. How much change did he receive if he paid with £1?

_____ 2 marks

e. When Toby got his change, he dropped 20p! He was left with three coins. What coins were they?

_____ 3 marks

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10. Tick the shapes that have at least one right angle.



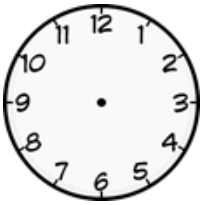
2 marks

11. Match the items on the left to how much you think they weigh. The first one has been done for you.

A grown man	10g
A bag of sugar	75kg
A cup of water	1kg
A pencil	200g

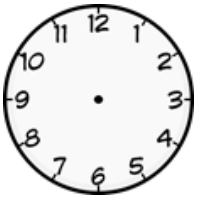
3 marks

12a. Cinderella is half an hour early for her ball at 7.30pm Draw hands on the clock face to show what time she was ready at.



1 mark

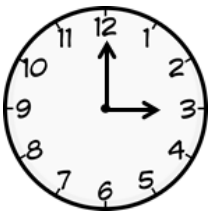
b. Mrs Brown is running late! She arrives at school 15 minutes after 9am. Draw hands on the clock face to show what time she arrives at school.



1 mark

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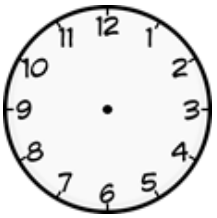
c. Look at the clock. What time does the school bell ring at the end of the day? Write your answer on the line below.



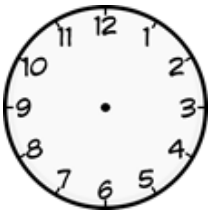
_____

1 mark

d. Look at the times on the digital clocks. Draw clock hands on the analogue clocks to show the same times.



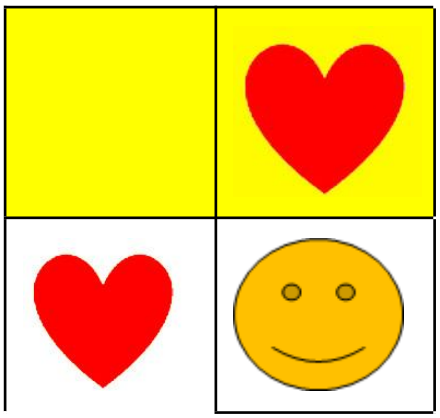






2 marks

13. Look carefully at this pattern:



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_____

a. What fraction of the grid is yellow? _____

b. What fraction of the grid has a picture in it? _____

c. What fraction of the grid has a smiley face in it? _____

d. What fraction of the grid is white with a red heart? _____

4 marks

14. Using the numbers 1 – 9 once only, fill this magic square so that the three numbers in each line add to make 15.

8		
	5	7
4		2

4 marks

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7 + Entrance Examination - Maths Sample paper - Numeracy Mark Scheme

Total Marks: 84

In questions 1-3, one mark is awarded for a correct answer, and one mark is given for showing working.

1a.	4
b.	6
c.	17
d.	4
e.	48
2a.	3
b.	27
3a.	130cm
b.	15
c.	4
4a.	26
b.	8
c.	22
d.	2
e.	14
f.	45
g.	20
h.	40

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i. 19

j. 14

k. 29

5a. -

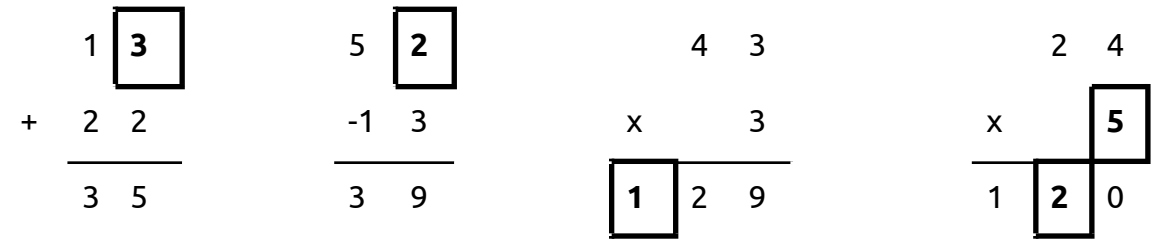
b. +

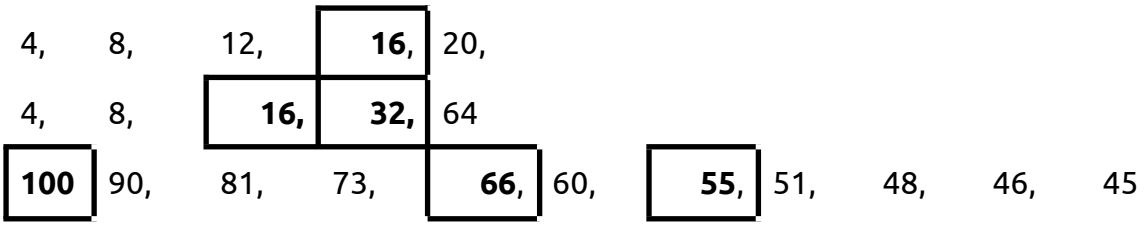
c. x

d. -

e. -

6.





7a. 20

b. (23-25)

c. 60

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d. 24

8.

- Red circles in correct place = 1 mark
- Yellow triangle in correct place = 1 mark
- Green rectangles in correct place = 1 mark
- Accurate drawing of wings = 1 mark

9a. No (one mark also given for working)

b. £2.02 (one mark also given for working)

c. 3 (one mark also given for working)

d. 43p (one mark also given for working)

e. 20p, 1p, 2p (one mark also given for working)

10.



√ √

11. A grown man = 75kg
A cup of water = 200g
A pencil = 10g

12a. Clock hands showing 7 o'clock. ½ mark
Hour hand shorter than minute hand ½ mark

b. Clock hands showing quarter past 9. ½ mark
Hour hand shorter than minute hand ½ mark

c. Three o'clock

d. Clock hands showing half past two
Hour hand shorter than minute hand ½ mark

Clock hands showing half past seven

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Hour hand shorter than minute hand ½ mark

13a. ½

b. ¾

c. ¼

d. ¼

14.

8	1	6
3	5	7
4	9	2

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