

7 + Entrance Examination

Sample Paper

Mathematics

Total Marks: 54

Time allowed: 45 mins

Information for parents:

This sample paper has been created for children who are embarking on the 7+ exam. We recommend that these papers are only used in the final run up to the exam.

The questions within the paper follow Level 3 of the National Curriculum and cover the entirety of the Year 2 Maths curriculum, therefore we strongly advise that students younger than Year 2 do not attempt these papers.

The papers are designed to be challenging, and it is not expected that students will achieve full marks. Although the 7+ exams are highly competitive, it is important to remember that schools are likely to be looking for potential rather than 100% accuracy.

Should you wish for your child to prepare for the 7+ exam before Year 2, we suggest revising individual concepts and playing active Maths games before embarking on more formal revision or sample papers.

Full name

1. Complete:

a. $4 + 5 =$

b. $5 + 6 =$

c. $14 + 6 =$

d. $15 - 8 =$

e. $8 - 4 =$

f. $16 - 7 =$

g. $3 \times 4 =$

h. $4 \times 2 =$

i. $5 \times 10 =$

j. $18 \div 3 =$

k. $25 \div 5 =$

l. $14 \div 2 =$

12 marks

2. Fill in the missing numbers:

24 + 8 =

x 10 = 50

88 - 9 =

4 x = 12

4 marks

3.

<u>Mum's shopping list</u>	
Onion	8p
Yoghurt	15p
Banana	7p
2 apples	5p each

a. How much did Mum spend when she went shopping?

b. How much change did she get from 50p?

2 marks

4.

<u>Dad's shopping list</u>	
Grapes	20p
Chocolate bar	7p
Newspaper	21p
6 eggs	4p each

a. How much did Dad spend when he went shopping?

b. How much change did he get from £1?

2 marks

5. Shade a quarter of these shapes:

--	--	--	--	--	--	--	--

3 marks

6. Count the stars. Colour a half.



1 mark

7. Put the measurements into order, longest to shortest

10cm

1m

$\frac{1}{2}$ m

5cm

5m

mark

1

8. Complete the number sequences

26, 24, 22, , 18,

10, 20, , , 50

99, 98, 97, 96, 95, 94, , ,

3 marks

9. Fill in the missing numbers so that all the answers give a total of 15

$$\boxed{} \times \boxed{} = \boxed{15}$$

$$\boxed{} + \boxed{} = \boxed{15}$$

$$\boxed{} + \boxed{} = \boxed{15}$$

$$\boxed{} \times \boxed{} = \boxed{15}$$

4 marks

10. 45 is made up of 4 tens and 5 units: $45 = 40 + 5$. Can you complete the following sums in the same way?

$$72 = \underline{} + \underline{}$$

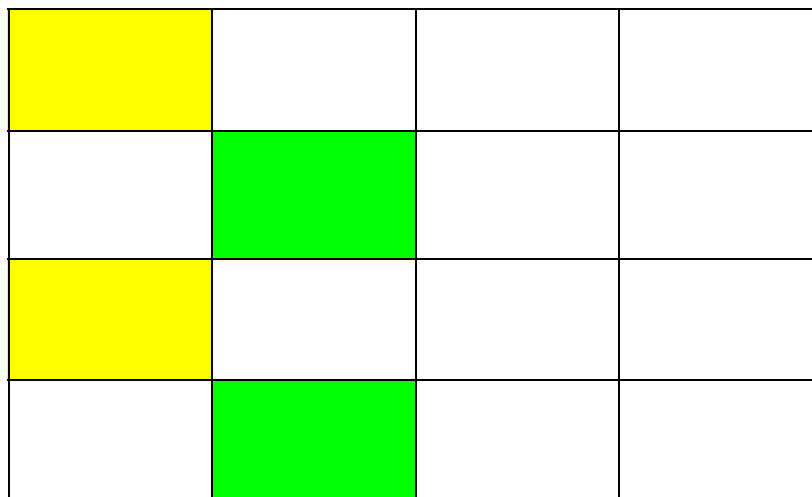
$$14 = \underline{} + \underline{}$$

$$37 = \underline{} + \underline{}$$

$$63 = \underline{} + \underline{}$$

4 marks

11. Complete the pattern to make it symmetrical.



4 marks

12a. Joe takes his dog for a 10 minute walk in the morning at 10:20am. What time does he return?

b. How many hours are in a day?

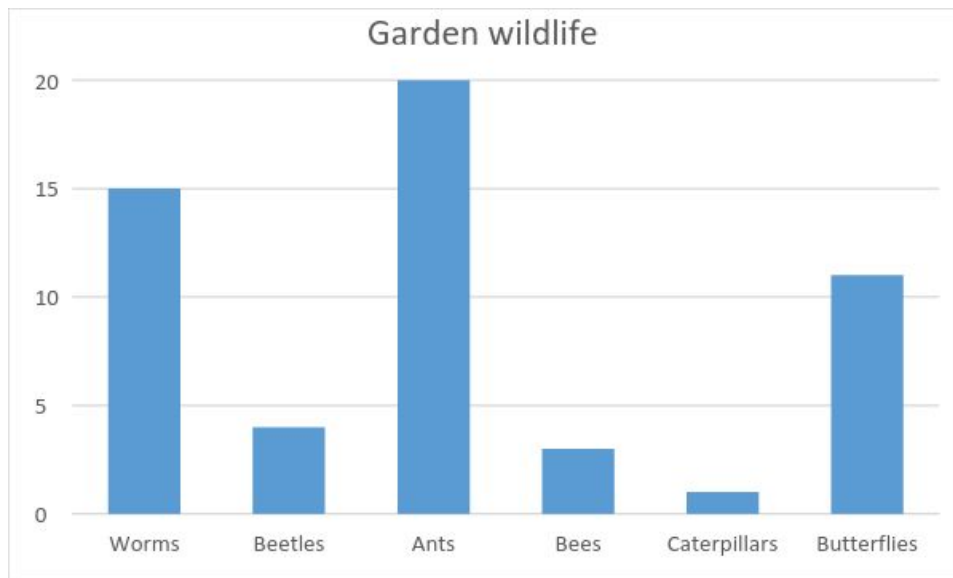
c. In a school there are **320** children. During the school year 15 children leave. How many children are left?

d. Is this an odd or an even number?

e. To go on a school trip, the school is split into five equal groups. How many children are in each group? (Remember that some children have left the school!)

5 marks

13. The children in the school recorded the amount of wildlife they saw in the school garden.

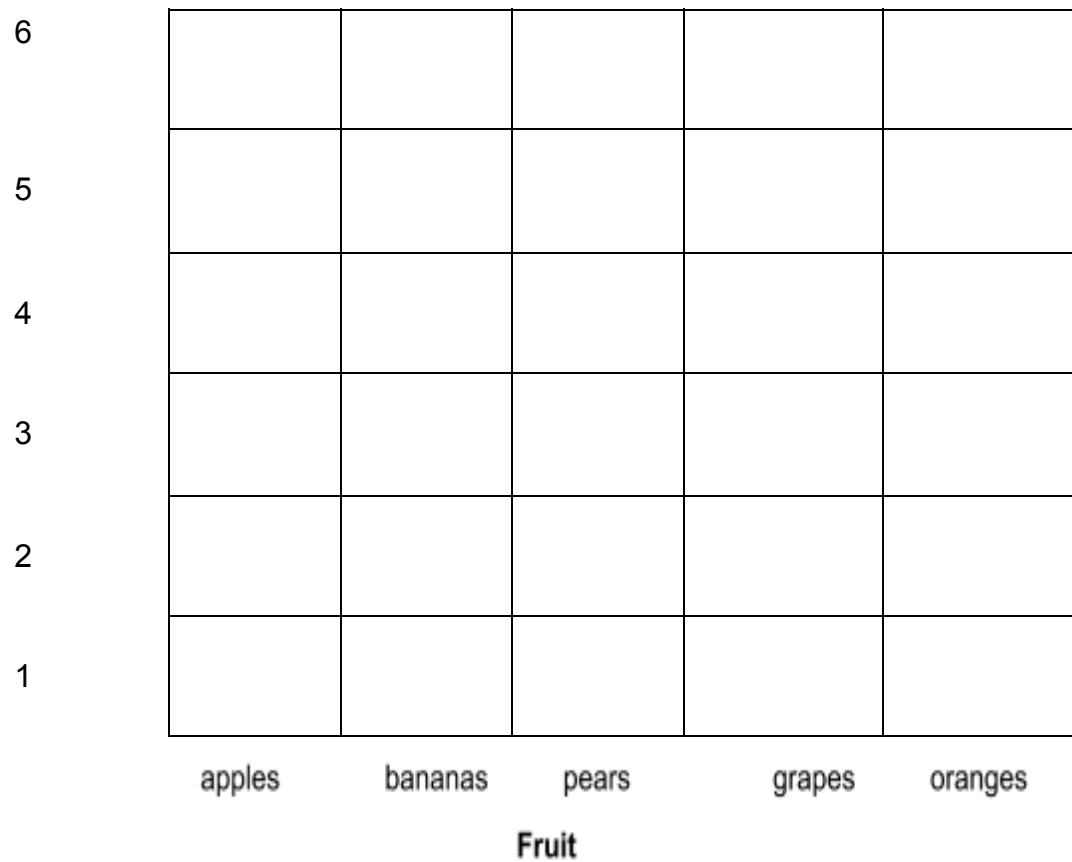


- a. Approximately how many caterpillars did the children see? _____
- b. What insect did the children see the most of? _____
- c. How many more ants were seen than worms? _____
- d. What did the children see 4 of? _____

4 marks

14. *The children in year 2 voted on their favourite fruit. Complete the bar chart using the information below:*

<u>Fruit</u>	<u>Number of votes</u>
Apples	3
Bananas	4
Pears	5
Grapes	2
Oranges	1



5 marks

**7 + Entrance Examination
Sample Paper
Mathematics Marking Scheme
Total Marks: 54**

1a.	9
b.	11
c.	20
d.	7
e.	4
f.	9
g.	12
h.	8
i.	50
j.	6
k.	5
l.	7

2a.	32
b.	5
c.	79
d.	3

3a. 40p (half a mark deducted for failure to include pence sign)

b. 10p (half a mark deducted for failure to include pence sign)

4a. 72p (half a mark deducted for failure to include pence sign)

b. 28p (half a mark deducted for failure to include pence sign)

5.

--	--	--	--	--	--	--	--



7. **5m, 1m, $\frac{1}{2}$ m, 10cm, 5cm**
(half a mark deducted for failure to include units of measure)

8.

26, 24, 22, **20,** 18, **16**

10, 20, **30,** **40,** 50

99, 98, 97, 96, 95, 94, **93,** **92,** **91,**

9. Any variation of numbers totalling 15 accepted. Examples shown below:

$$\boxed{5} \times \boxed{3} = \boxed{15}$$

$$\boxed{10} + \boxed{5} = \boxed{15}$$

$$\boxed{11} + \boxed{4} = \boxed{15}$$

$$\boxed{3} \times \boxed{5} = \boxed{15}$$

10. $72 = 70 + 2$

$14 = 10 + 4$

$37 = 30 + 7$

$63 = 60 + 3$

11.

12a. 10:30am/ half past ten

b. 24

c. 305

d. odd

e. 61

13a. 1 or 2 will be accepted

b. Ants

c. 5

d. Beetles

14. One mark given per fruit (correct number of squares shaded)

