

# St Christopher's School

## Transition

# MATHS

## Michaelmas 2010

**Please read this information before the examination starts.**

- You have 45 minutes in which to complete this paper.
- Read through each question carefully.
- If you cannot do one of the questions, **go on to the next one.** You can come back to it later, if you have time.
- If you finish before the end, go back and check your work.

**Total: 60 marks**

**Name .....**

1. Complete the tables for the function machines below.

The first adds 10 to the number put in.

<b>Input</b>	75	148			797
<b>Output</b>			236	502	

The second adds 100 to the number put in.

<b>Input</b>	139	1230		2980	
<b>Output</b>			1350		3098

2. Complete each of the sequences below.

a. \_\_\_\_\_ 365, 366, 367, \_\_\_\_\_, 369

b. 786, 776, 766, 756, \_\_\_\_\_, 736, \_\_\_\_\_

c. 803, 802, 801, \_\_\_\_\_, \_\_\_\_\_, 798

d. 2067, 2077, 2087, \_\_\_\_\_, 2107, \_\_\_\_\_

e. 3424, 3524, 3624, \_\_\_\_\_, \_\_\_\_\_, 3924

3. Use the numbers in this addition calculation to make two subtraction calculations.

$$28 + 47 = 75$$

a. \_\_\_\_\_

b. \_\_\_\_\_

2

4. Complete these calculations.







a.

$$34 - 19 = \underline{\quad}$$

b.

$$63 - 28 = \underline{\quad}$$

2

5.	pack of stickers	can of drink	comic	pencil	pack of gum	bar of chocolate
	25p	36p	49p	19p	27p	38p
						

Find the total cost of the three items listed:

a. can of drink, bar of chocolate, pack of stickers \_\_\_\_\_

b. comic, can of drink, pack of gum \_\_\_\_\_

2

6. Find the answers to the sums below.

a.  $\frac{1}{2}$  of 20 =

b.  $\frac{3}{4}$  of 24 =

c.  $\frac{2}{5}$  of 45 =

3

7. In the table below:

- draw a circle  around the multiples of 3.

- draw a square  around the multiples of 4.

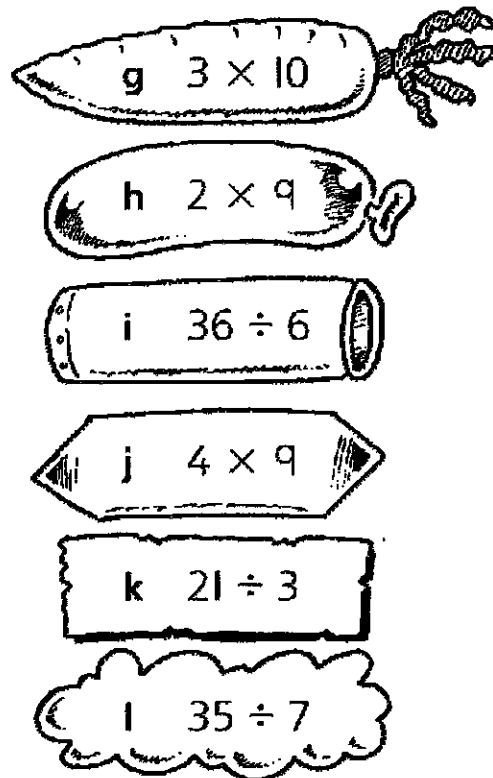
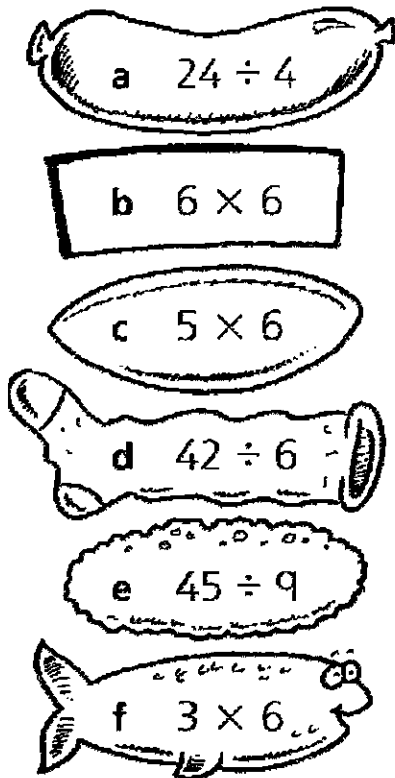
<b>18</b>	<b>5</b>	<b>15</b>	<b>16</b>
<b>7</b>	<b>12</b>	<b>19</b>	<b>30</b>
<b>24</b>	<b>17</b>	<b>40</b>	<b>27</b>
<b>11</b>	<b>32</b>	<b>6</b>	<b>23</b>

2

Which numbers have squares **and** circles on them? \_\_\_\_\_

2

8. Join the calculations that give the same answer with a line.



6

9. Work out the answers to these sums.

a.  $15 \times 4 =$

b.  $27 \times 3 =$

c.  $42 \times 3 =$

3

10. Mark these fractions on the number line

a  $\frac{1}{2}$

b  $\frac{1}{4}$

c  $\frac{3}{4}$

d  $\frac{1}{3}$



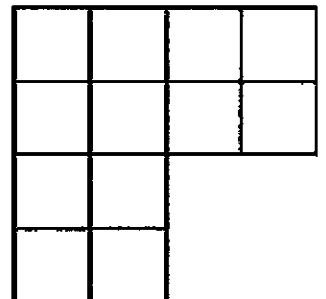
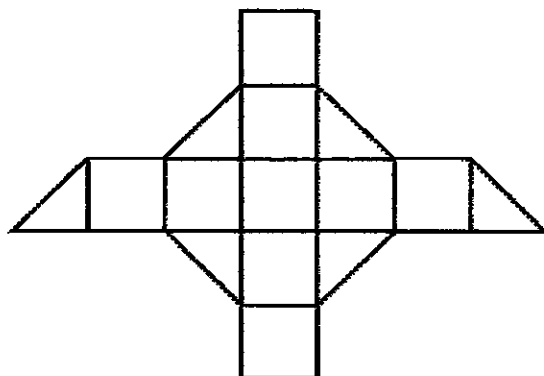
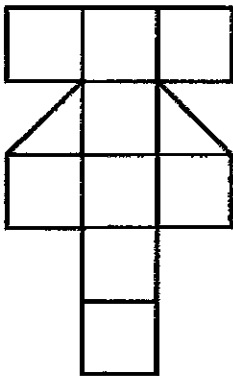
11. Write what the missing numbers could be.

a.  $\frac{1}{2} = \frac{\quad}{10}$

b.  $\frac{3}{\quad} = \frac{6}{10}$

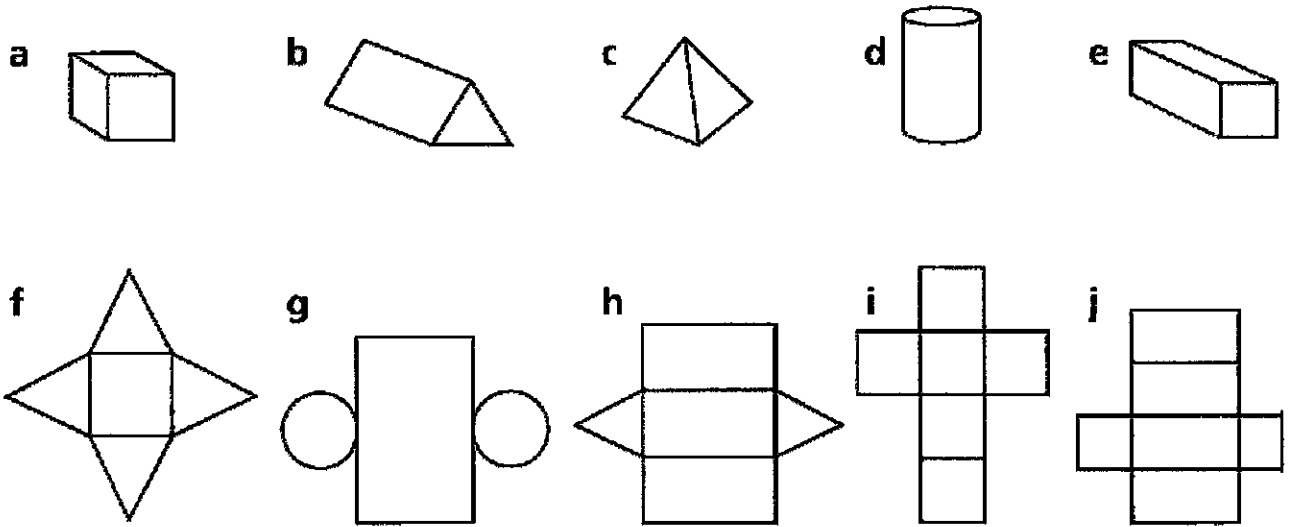
2

12. Put a tick inside the shapes which have an area of 12cm<sup>2</sup>.



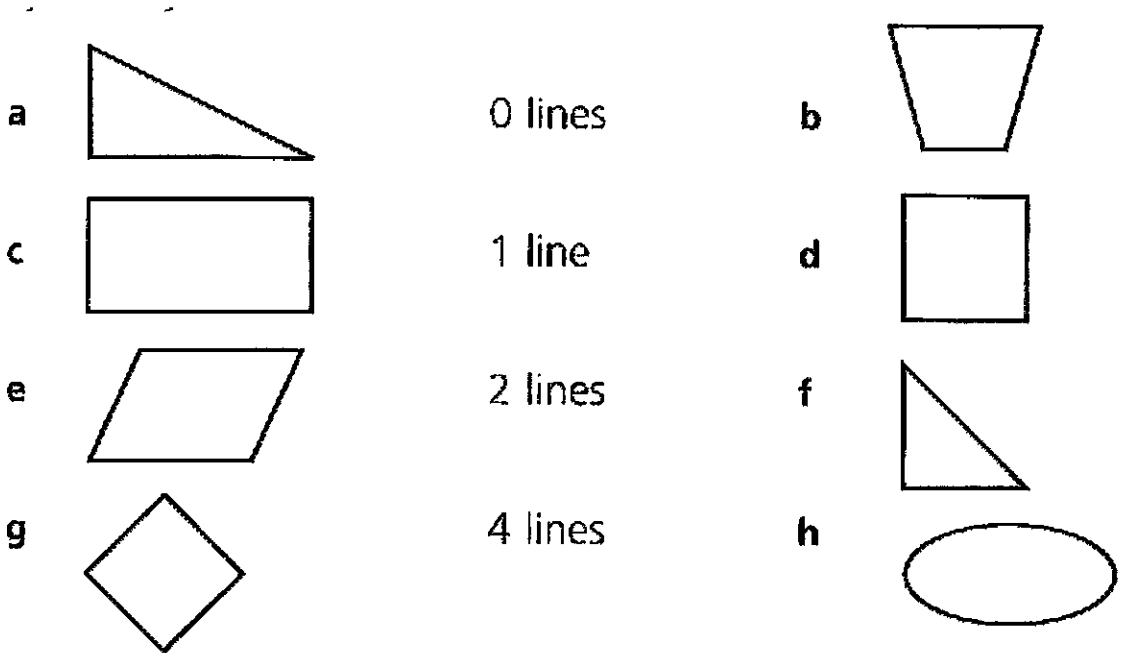
2

13. Join each shape to its net.



5

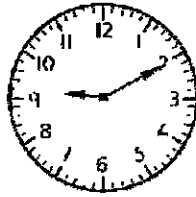
14. Join the shapes to the correct number of lines of symmetry.



4

15. Look at the bus timetable.

Where is the bus at the times shown?



**Bus timetable**

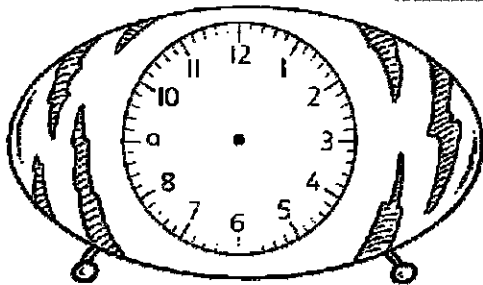
Bus station	8:35
School	8:42
Hospital	8:50
Post Office	8:56
Leisure Centre	9:05
Police Station	9:10
Supermarket	9:18
Town centre	9:25

4

16. Draw the hour and the minute hand on the clocks below and write the correct digital time in the box.

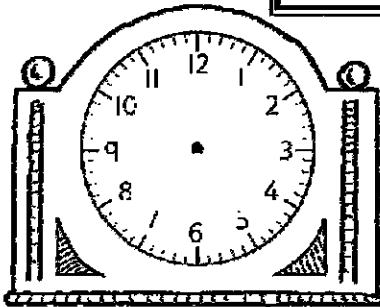
25 past 8

:



20 to 5

:



2