

PRIMARY SCHOOL ANNUAL EXAMINATIONS 2008

Educational Assessment Unit – Education Division

YEAR 6



MATHEMATICS

TIME: 1h 30min

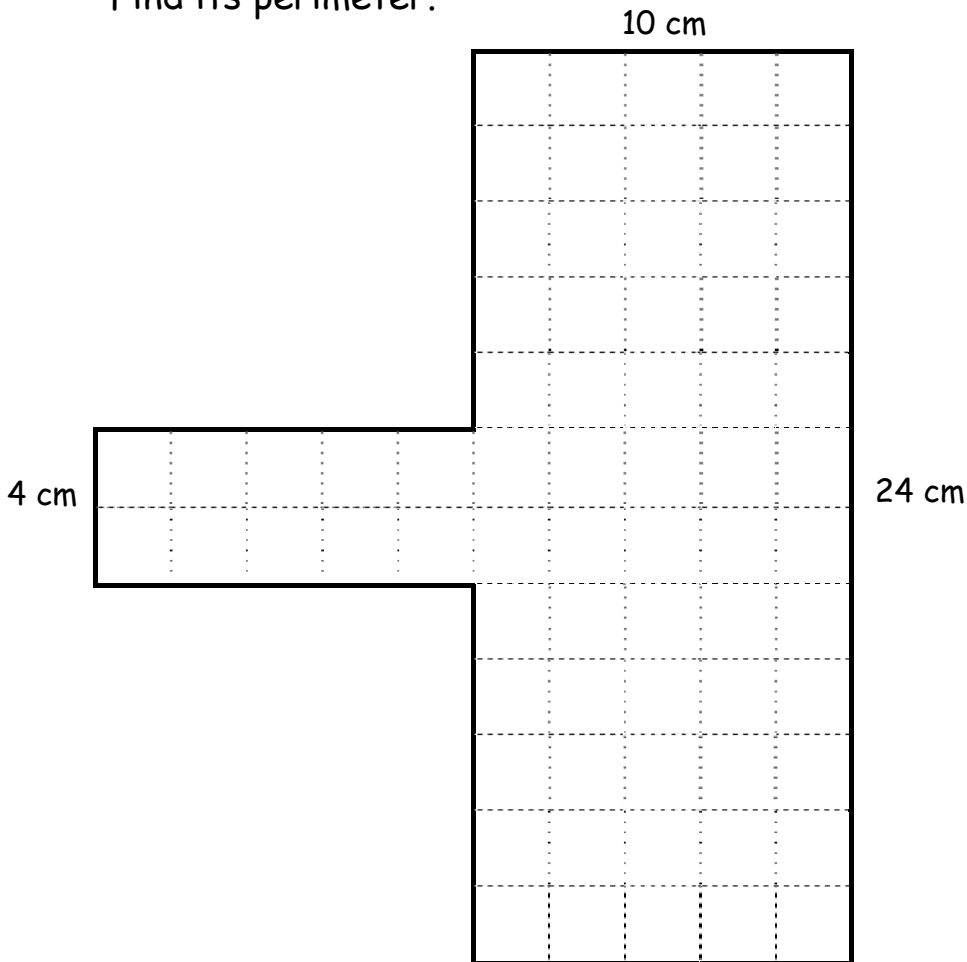
NAME: _____

CLASS: _____

1. Complete:

a.	$19 + \boxed{} = 100.$
b.	$150 - \boxed{} = 35.$
c.	$46 + 46 = \boxed{} + 12.$
d.	$5.3 \times 10 = \boxed{}.$
e.	One half of 110 is $\boxed{}.$
f.	$18, 24, \boxed{}, 36, 42, \boxed{}, 54.$
g.	$\frac{8}{32} = \frac{4}{16} = \frac{\boxed{}}{8} = \frac{1}{\boxed{}}.$
h.	$70.5 \div 10 = \boxed{}.$
i.	$3 \text{ kg } 750 \text{ g} + \boxed{} \text{ g} = 4 \text{ kg } 500 \text{ g}$
j.	$285 \text{ cm} = \boxed{.} \text{ m}$
k.	<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;">  </div> <div style="flex-grow: 1;"> <p>These milk cartons are filled with milk.</p> <p>Tick ✓ in the box next to the correct answer.</p> </div> <div style="margin-left: 10px;"> <input type="checkbox"/> 1.750 kilometres. <input type="checkbox"/> 1.750 grams. <input type="checkbox"/> 1.750 litres. <input type="checkbox"/> 1.750 metres. </div> </div>
l.	<p>Add:</p> <div style="display: flex; align-items: center; justify-content: center;">  € _____ </div>

2. In this shape the side of each small square represents 2cm.
Find its perimeter.



Perimeter of shape = _____ cm

-
3. Round to the nearest whole unit.

Example: 7.3 kg = 7 kg.

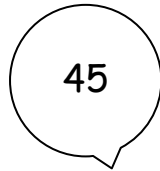
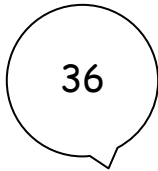
a) 5.6 metres = _____ metres.

b) €26.15 = €_____.

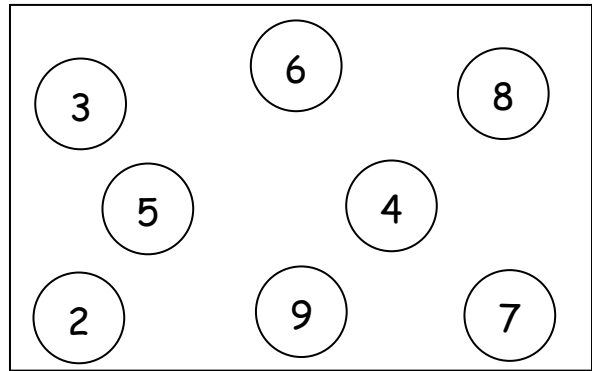
c) 58.250 litres = _____ litres.

d) 17.835 km = _____ km.

4.



BOX A



Complete, using only numbers from **BOX A**.

- a) 2 factors of 36 are _____ and _____.
 - b) 2 factors of 45 are _____ and _____.
 - c) 2 factors of **both** 36 and 45 are _____ and _____.
 - d) _____ is **neither** a factor of 36 **nor** a factor of 45.
-

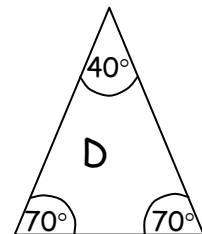
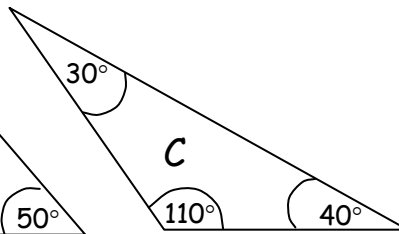
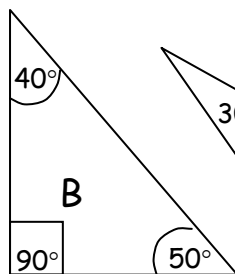
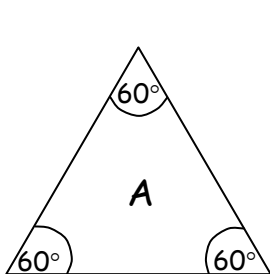
5. Write the correct name for each triangle.

scalene,

equilateral,

isosceles,

right-angled



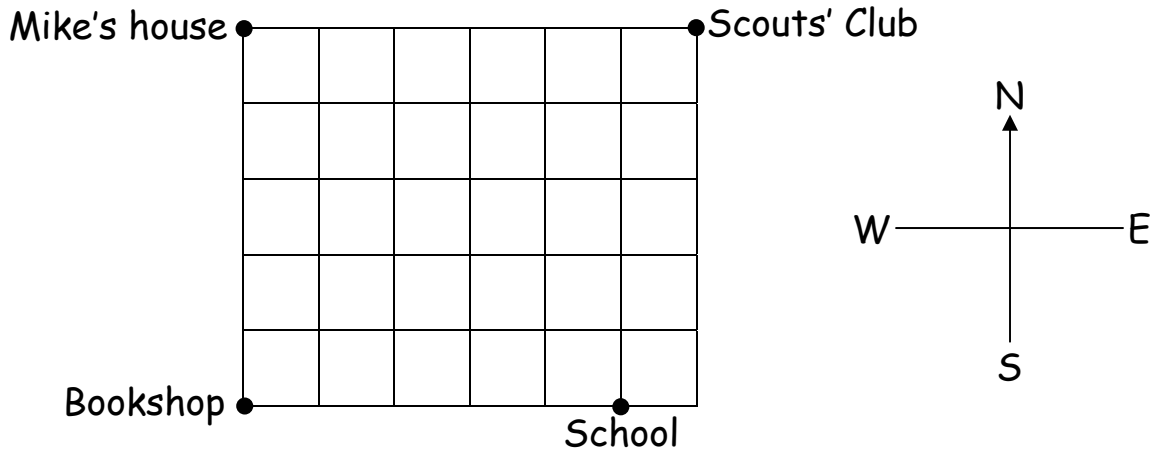
A _____

B _____

C _____

D _____

6. This is a plan of a **part** of Mike's town.



Each side of a square represents **25 metres**.

Mike walks back home from the Scouts' club. He goes **west**.
He walks 150 metres in all.

a) Fill in each space with the **correct direction**:

From his house, Mike walks _____ to the bookshop
and then _____ to school.

b) Complete:

Mike walks **straight** from his house to the bookshop and then to
school. He walks _____ **metres** altogether.

7. What shape am I?

a) I have **6 equal faces**. Each face is a **square**.

I am a _____.

b) I have **2 circular faces** and **1 curved face**.

I am a _____.

c) I have only **1 face**. My face is **curved**.

I am a _____.

d) I have **5 vertices**, **1 square face** and **4 triangular faces**.

I am a _____.

8. The answers in the boxes are rounded to the **nearest ten**.

Tick ✓ next to the best answer.

Example $4.3 \times 4 =$

20	✓
----	---

30	
----	--

40	
----	--

50	
----	--

a) $56.8 \div 2 =$

10	
----	--

20	
----	--

30	
----	--

40	
----	--

b) $399 + 460 =$

800	
-----	--

820	
-----	--

840	
-----	--

860	
-----	--

c) $706 - 245 =$

350	
-----	--

460	
-----	--

500	
-----	--

550	
-----	--

d) $\frac{5}{8}$ of 840 =

530	
-----	--

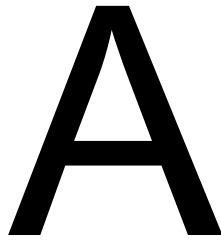
550	
-----	--

570	
-----	--

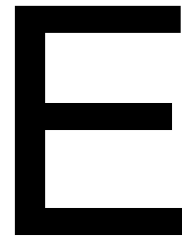
590	
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9. Draw the lines of symmetry of these letters.

a)

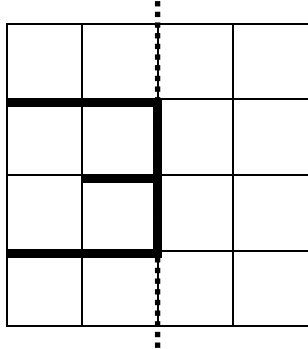


(i)

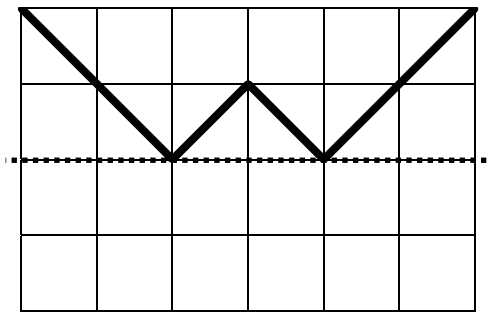


(ii)

b) Draw the reflection of these shapes in the mirror line.



(i)



(ii)

10. Paul sells oranges at €0.80 per kg.
Mario sells oranges at €5 for a crate of 10 kg.

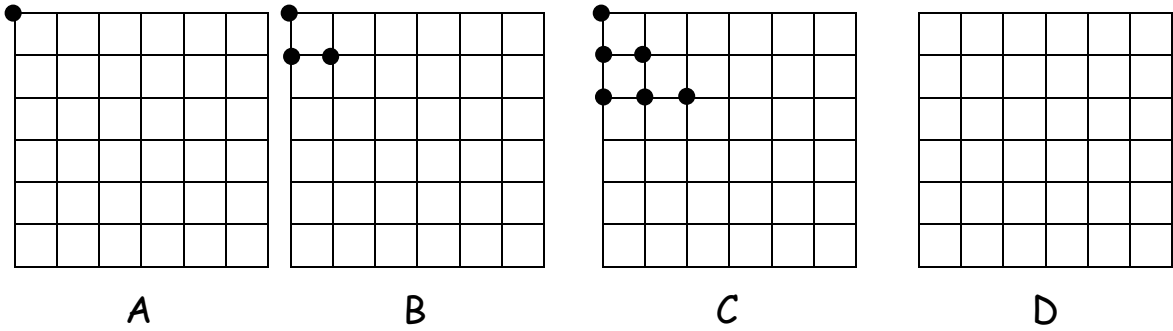
Complete:

Mum buys a crate of oranges from Mario.

a) 1 kg of oranges costs her €0._____.

b) Why does Mum prefer to buy oranges from Mario and not from Paul?

11. Sarah draws these patterns of dots on a square grid.



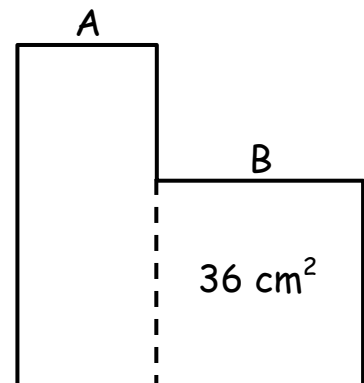
- a) Draw the next pattern on grid D.
- b) Sarah continues the sequence of patterns up to pattern H. Complete the table for patterns F and H.

Pattern	A	B	C	D	E	F	G	H
Number of dots	1	3	6					

12. The shape below is made up of a rectangle, A, and a square, B. The area of shape A is 28 cm^2 .

- a) The total area of shapes A and B is _____ cm^2 .

Patrick draws a new rectangle that has the same area as shapes A and B together.



- b) The new rectangle is 4 cm long and _____ cm wide.
- c) Lara then draws a square that has the same area as shapes A and B together. Lara draws a square of side _____ cm.

13. There are **62 pages** in a workbook.

a) The workbook is printed for **28 children**.

(i) **Estimate** how many pages were printed.

Estimated number of pages _____

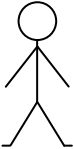
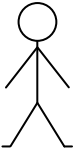

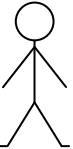
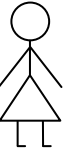

(ii) Work out the **exact** number of pages printed.

Exact number of pages _____

b) Paper comes in packs of **500**.

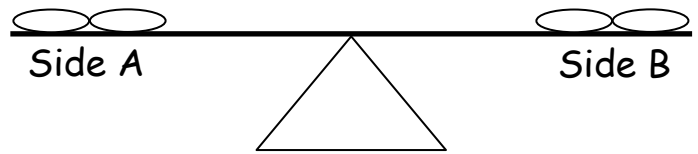
Explain why **four** packs are needed to print all the workbooks.

14. These are the **weights** of **6 children**.

Pat	Tom	Lynn	Ben	Kate	Pam
					
24 kg	30 kg	34 kg	36 kg	39 kg	45 kg

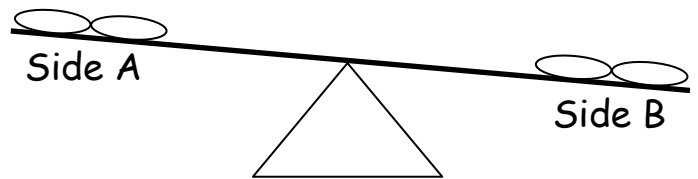
The see-saw takes **2 children** on **each side**.

- a) **Kate** and **Ben** sit on **side A** of the see-saw. Together they weigh 75 kg.



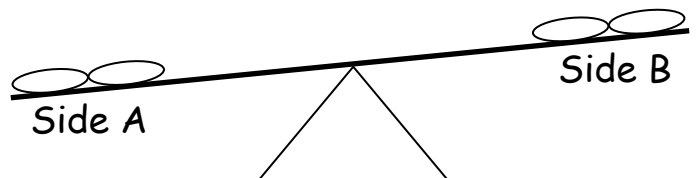
To balance the see-saw _____ and _____ must sit on **side B**.

- b) **Pat** and **Ben** together weigh 60 kg. They sit on **side A**. The 2 children who sit on **side B** are together **9 kg heavier** than Pat and Ben.



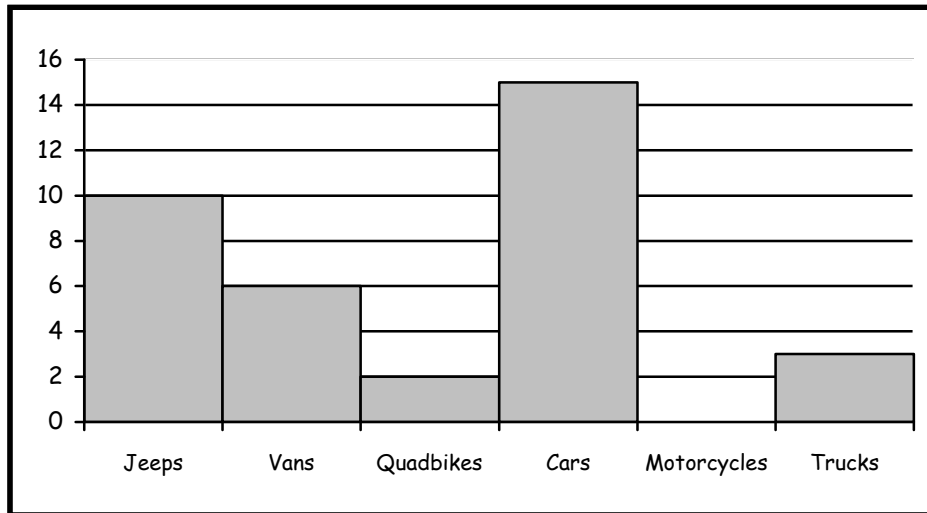
The 2 children on **side B** are _____ and _____.

- c) Pam and Lynn together weigh 79 kg. They sit on **side A**. The 2 children who sit on **side B** are together **4 kilograms lighter** than Pam and Lynn.



The two children on **side B** are _____ and _____.

15. The graph shows the number of vehicles in a parking area.



a) Use the graph to fill in the table.

Type of vehicle	Jeeps	Vans	Quadbikes	Cars	Motorcycles	Trucks
Number					8	

b) Complete the missing part of the graph to show the number of motorcycles.

16. Look at the numbers in this table.

45	171	331	99	250	114
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Complete with **two numbers** from the table.

a) + = odd number

b) + = even number

c) + = square number

END OF PAPER

Questions 1 a - 1 ... 2 marks each; questions 2 - 8 ... 4 marks each;
 Questions 9 - 16 ... 6 marks each.