Primary Schools
Half Yearly Exams 2011/2012

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Year 6	**Mathematics** **Written Paper**	**1 hr 15 mins**

_____

Name: _____ **Class:** _____

ANSWER ALL QUESTIONS

Questions 1 – 4 … 4 marks each
Questions 5 – 12 … 5 marks each
Questions 13 – 16 … 6 marks each

1. Work Out:

a) 345 + 56 = _____	b) 6013 – 1245 = _____
c) 712 ÷ 8 = _____	d) 48 X 7 = _____

2. a) Circle the correct estimate:

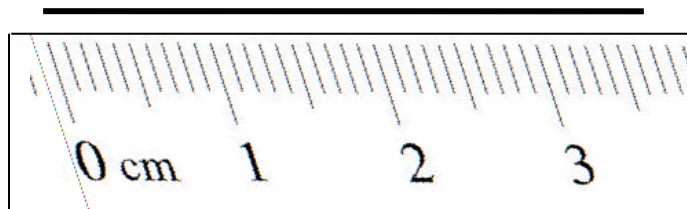i) the length of a new pencil

18 cm	0.5 cm	3 m

ii) the height of a door

14 cm	30 km	2 m

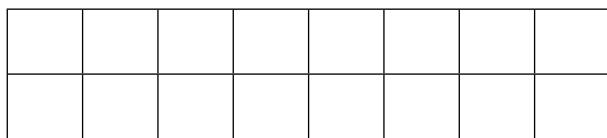b) This line is 3.7 cm long.
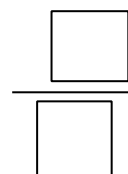
i) Write its length in millimeters.   _____ **mm**

ii) Round your answer to the nearest centimetre.   _____ **cm**

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3. a) Shade $\frac{3}{4}$ of this shape.

b) What fraction is left unshaded?

$$\frac{\square}{\square}$$

c) Fill in with **<** or **>**

$\frac{11}{15}$ □ $\frac{4}{5}$

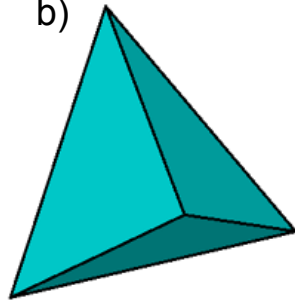d) Write this fraction in its lowest terms.

$$\frac{16}{36} = \frac{\square}{\square}$$

4. Put a tick (✓) near the correct statements:
   Choose <u>two</u> correct statements for each shape.
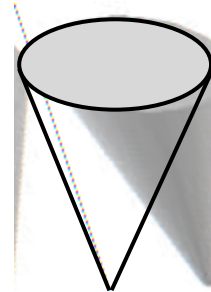
   a)   b)

   pyramid

   This pyramid has 3 faces. ☐

   This pyramid has 4 vertices. ☐

   This pyramid has 6 edges. ☐

   The pyramid is a flat shape. ☐

   cone

   The cone is a flat shape. ☐

   The cone has 1 vertex. ☐

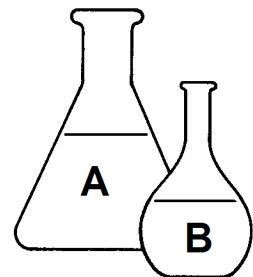   The cone has 2 circular edges. ☐

   The cone has 2 faces. ☐

5. a) In flask **A** there are 1.43 l of water.
      In flask **B** there are 750 ml less.

      Work out the amount of water in **flask B**.
      Give your answer in ml.
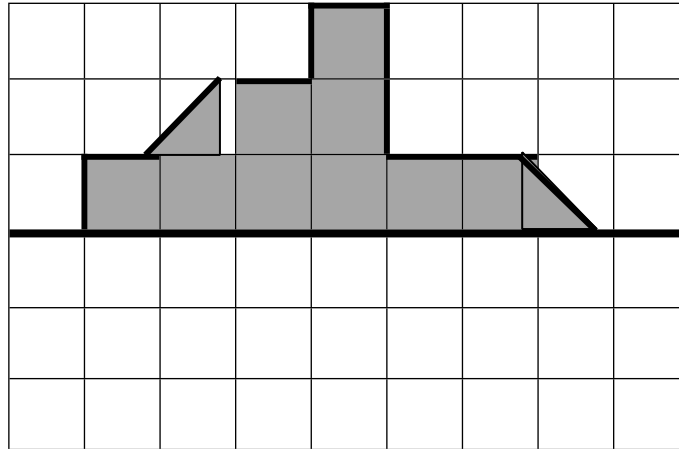
      _____

   ml

   b) How many ml of water do flask A and flask B have altogether?

ml _____

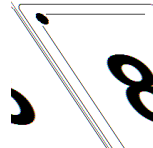6. a) Draw the reflection of the shaded shape in the mirror line.
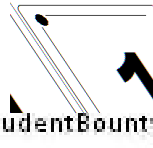
b) Look at these letters and answer the questions below.

A H F C O S

i) Which letters have only one line of symmetry?   _____ and _____

ii) Which letters have no line of symmetry?   _____ and _____

iii) Which letters have more than one line of symmetry?

_____ and _____

7. Look at the number cards.

5   7   1   8   3

www.StudentBounty.com

a) Using **all the cards**, write:

   i) the **largest** number: ___ ___ ___ ___ ___

   ii) the **smallest** number: ___ ___ ___ ___ ___

b) Find the **difference** between the two numbers.

                                                 _____

c) Using **two different cards each time**, write:

   i) a two digit number, exactly divisible by 5:

   ii) a two digit number, exactly divisible by 2:

8. Mum emptied **three boxes of chocolates** and put them on **8 saucers**. There were **15 chocolates on each saucer** and **6 were left** in the box.

a) How many chocolates were there in all?

_____ chocolates

b) At the end of the party, Mum found out that $\frac{2}{7}$ of all the chocolates were not eaten. How many chocolates were left?
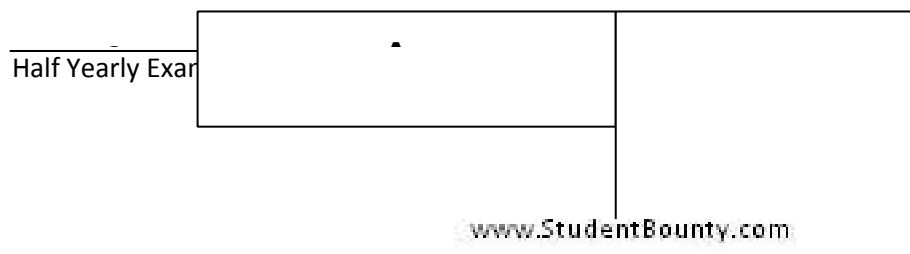
_____ chocolates

c) What fraction of the chocolates were eaten. **Give your answer in its lowest terms**.

$$\frac{\boxed{}}{\boxed{}}$$

9. **(Do not use a ruler to answer this question)**
   This shape is made up of **Rectangle A** and **Square B**.

16 cm

B   7 cm

a) Rectangle A is **2cm wide** and _____ **cm long**.

b) The **area of Square B** is _____ **cm²**.

c) The **total area** of the whole Shape (A + B) is _____ **cm²**.

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10. a) Mark sells olive oil at **63c per litre**. Mum buys **7 litres** of olive oil. How much did she pay?

€ _____ · _____

b) Simon sells olive oil at **€4·20 per container of 6 litre**. How much does 1 litre of olive oil cost?

€ _____ · _____

c) Who sells the cheaper oil, Mark or Simon?

_____

11. This is the **calendar** for the month of **February 2012**.

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11

12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

a) Fill in.

   i) The **first day** of the month is a _____.

   ii) Paul's birthday is on the fourth Wednesday of February. The date will be _____ of February.

b) The 10th of February is a public holiday. The 20th and 21st of the same month are carnival holidays. Work out the number of school days in February 2012.

There are _____ school days in February.

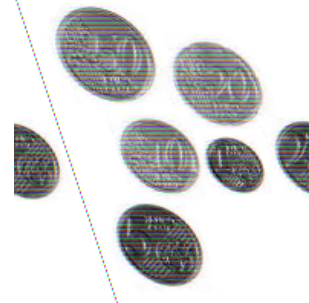c) Paul went to visit his grandpa the day before Wednesday, 1st February 2012. What was the date?

The date was Tuesday, _____ 2012.

d) Looking at this calendar we can say that the year 2012 is a leap year. Why?

_____.

12. Sarah saves **83c a week**.

   a) How much did she save in 9 weeks?

She saved € _____ . _____ in 9 weeks.

b) She went to the stationery and spent all she had saved in 9 weeks on **three** of these **items**:

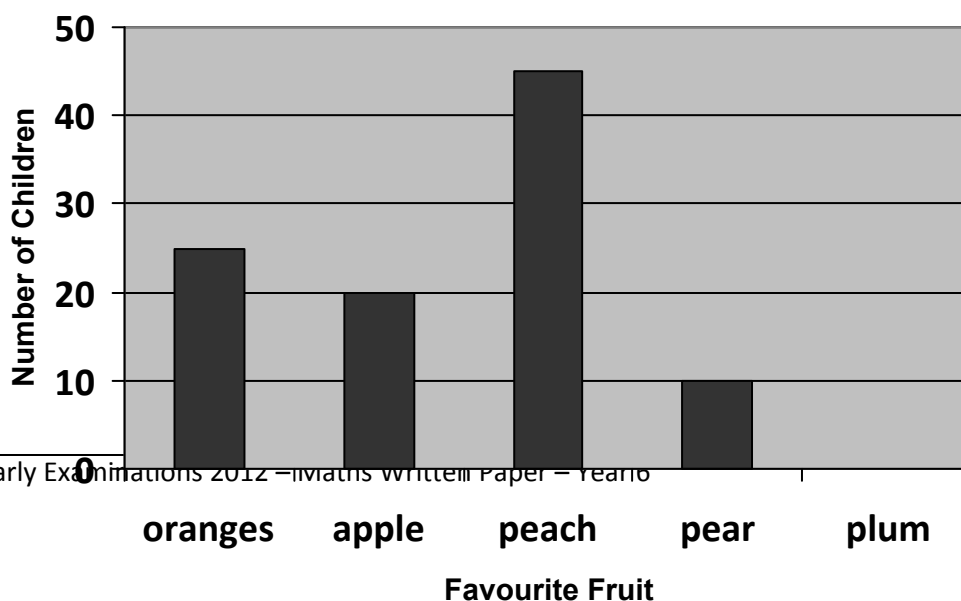| sharpener	file	diary	eraser	pen
€ 0.84c	€ 2.95	€ 3.48	€ 1.50	€ 1.04

Which three items did she buy?

She bought:

a _____, a _____ and a _____.

c) Sarah wants to buy the eraser. How many 50c coins does she need to save.

_____ 50c coins

13) This graph shows the favourite fruit among pupils in year 6.

Number of Children

50
40
30
20
10
0

oranges   apple   peach   pear   plum

Favourite Fruit

Fill in:

a)   The number of children prefering plums is double that of pears. Draw the number of children preferring plums.

b) Which two fruits are equally favourite?

_____ and _____.

c) How many year 6 children are there in school?

There are _____ children.

d) What **fraction** of the children chose **peach** as their favourite fruit?

$$\frac{\boxed{}}{\boxed{}}$$

14. a) **593 students** and **14 teachers** are going on a bus trip. Each bus **can seat 47 persons**. No standing is allowed. How many buses are needed?
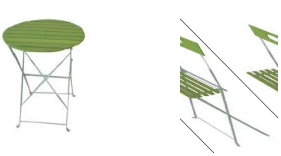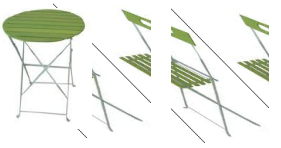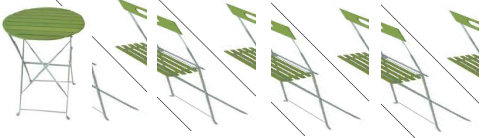
_____ buses

b) Each child paid 41c for the bus fare and the teachers went for free. How much did they pay in all?

€ _____ · _____

15. A bazaar is selling beach tables and chair. Look at the table below:

	€25.50
	€35.00
	€54.00

a) Find the cost of one chair.

€ _____ . _____

b) Find the cost of one table.

€ _____ . _____

c) Work out the cost of 2 tables and 8 chairs.

€ _____ . _____

16. Ms Borg gave her students stickers for good behavior.

Look at the stars and their points.

☆	2
♡	3
☺	5

Luca   ☺ ☺ ☺ ♡ ♡ ♡ ♡ ☆

☺ ☺ ♡ ♡ ♡ ♡ ♡ ♡ ☆ ☆ ☆ ☆

Carl

Luca needs **two more stickers** to reach **Carl**.

a) Shade the two stickers needed. ☆ ♡ ☺

Ben has a total of **41 points** and has **one more sticker** than **Carl**.

b) Shade the sticker he needs. ☆ ♡ ☺

Look at **Tom's** stickers.

Tom ☺ ☺ ☺ ☺ _____, _____, _____.

Tom has **7 stickers in all** with a total of **31 points**.

c) Draw the missing 3 stickers.

[ ] [ ] [ ]

END OF PAPER