D

FORM 1	**MATHEMATICS**	**TIME: 30 minutes**
	Non Calculator Paper	

Name: _____   **Class:** _____

Question	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Total**
Mark										

Instructions to Candidates

- **Answer all questions.**

- **This paper carries a total of 25 marks.**

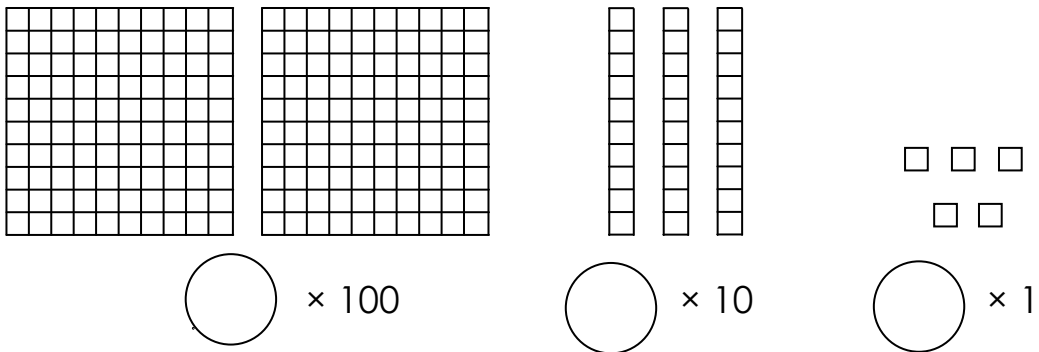- **Calculators and protractors are NOT ALLOWED.**

1. Fill in:

   a) 6 + ⬚ = 10

   b) 8 + ⬚ = 20

   c) ⬚ + ⬚ = 20

(3 marks)

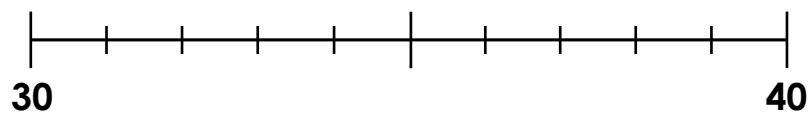2. How do I write this number?

   (⬚) × 100   (⬚) × 10   (⬚) × 1

   The number is _____.

(4 marks)

3. Use the number line to **work out**.

   30   **40**

   a) 32 + 7 = ⬚

   b) 39 − 6 = ⬚

(2 marks)

4. a) 42 × 2 = (⬚ × 2) + (2 × 2)

          =   80 + 4 = ⬚

    b) 42 ÷ 2 = ⬚

(2 marks)

5. **Complete** these number machines.

    a) (26) ⟶ [+3] ⟶ [−6] ⟶ ⬚

    b) (33) ⟶ [× 10] ⟶ ⬚

    c) (65) ⟶ [÷ 5] ⟶ ⬚
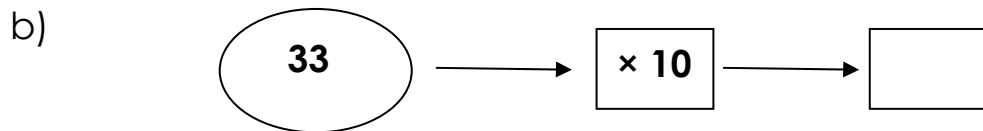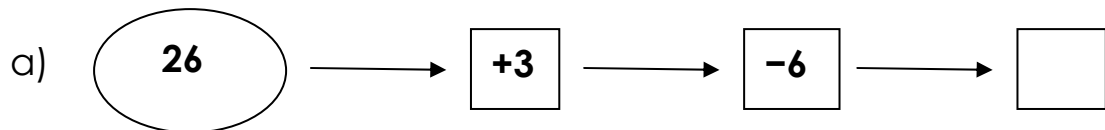
(3 marks)

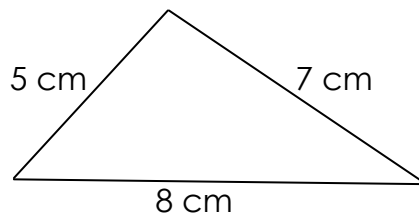6. **Fill in** the missing numbers.

    a) 2, ⬚ , 6, 8.

    b) 36, 37, ⬚ , 39.

(2 marks)

7. What is the **perimeter** of this triangle?

    5 cm   7 cm

    8 cm

    The **perimeter** of this triangle is _____ cm.

(2 marks)

8. a) How much do they weigh?

| 200 g, | 2.5 kg, | 1 kg. |

Bag of flour   Can of beans   Bag of potatoes

b) Mum buys the **flour** and the **potatoes**.
How many **grams** does she have in all?

Flour   +   Potatoes   =   In all.

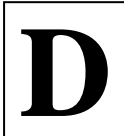[   ] grams + [   ] grams = [   ] grams

(4 marks)

9. a) This table shows the number of children in each family. Complete the table.

Number of Children	Tally	Number of Families
1	IIII	
2	ℍℍ II	
3	III	
4	II	

b) How many children are there **in all**?

Answer _____

(3 marks)

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION
Department for Curriculum Management and eLearning
Educational Assessment Unit
Annual Examinations for Secondary Schools 2011

D

FORM 1 **MATHEMATICS** **TIME: 1h 30min**
Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total Main	Non Calc	**Global Mark**
Mark																	

DO NOT WRITE ABOVE THIS LINE

Name: _____ Class: _____

CALCULATORS ARE ALLOWED BUT ALL NECESSARY WORKING MUST BE SHOWN.
ANSWER ALL QUESTIONS

1. a) How many flowers are there **in all**?
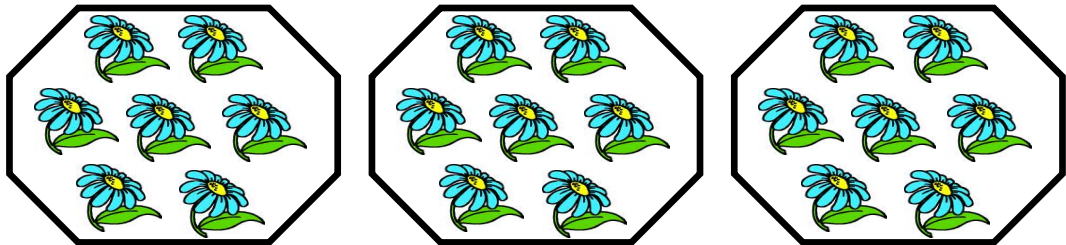
Answer _____

    b) How many **groups of 7** can I make?

$21 \div 7 = \boxed{}$

(4 marks)

2. a) A packet has **6 biscuits**.
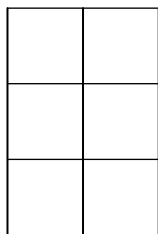How many biscuits in **3 packets**?

Answer _____

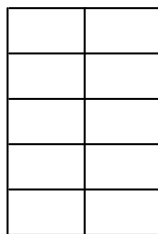b) **Four** boxes together weigh **52 kg**.

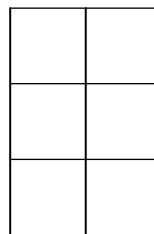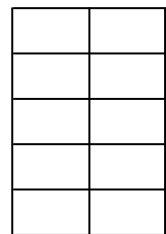**One** box weighs _____.
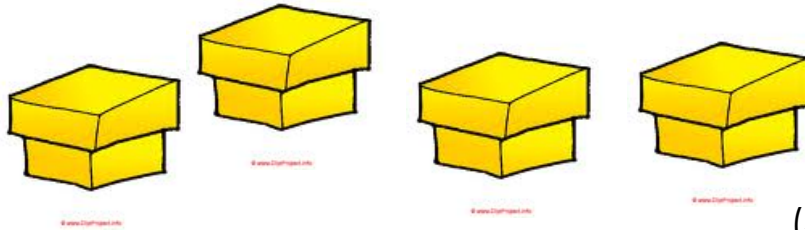
(4 marks)

3. a) Shade:

$$\frac{4}{6}$$ $$\frac{8}{10}$$ $$\frac{2}{3}$$ $$\frac{4}{5}$$

b) Match the equivalent fractions.

(i) $$\frac{4}{6}$$ = [ ]   (ii)   [ ] = $$\frac{4}{5}$$

(6 marks)

4.   a)   Fill in with: | months, hour, minutes, years. |

(i) There are 60 _____ in 1 _____.

(ii) Football World Cup Competition is done every 4 _____.
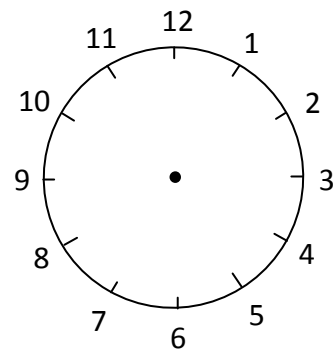
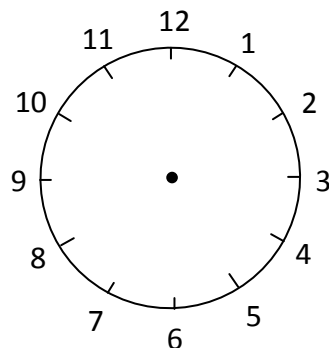(iii) Baby Karl is 10 _____old.

b)   Draw the hands of the clock.

(i)
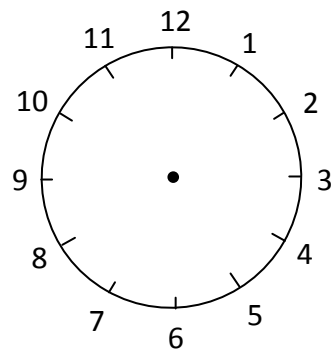
quarter past six

(ii)

quarter to eight

(iii)

2.30 p.m.

5. Maria buys some objects.

    (a) Work out the bill for her.

	Working	**Cost**
2 pots at €1.30 each		
3 packets of seeds at 60c each		
1 bag of compost at €2.10	€2.10	
	TOTAL	

b) How many euro coins does she need?

Answer _____

c) She pays with a **ten euro note**.
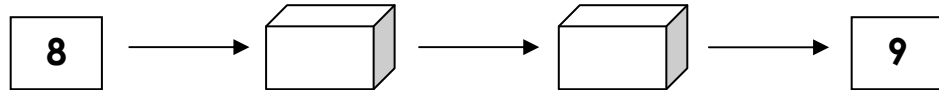
   What **change** does she get?

Answer _____

D

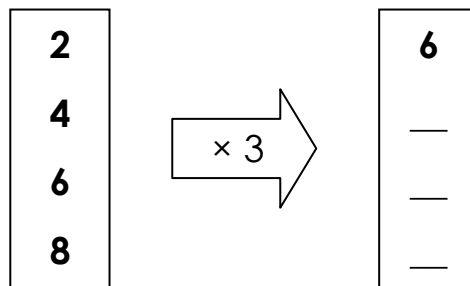6. a)   A number machine adds 2 and then takes away 1.
         Fill in this **number machine**.

         8 ────▶ ☐ ────▶ ☐ ────▶ 9

    b)   Work out the **outputs**.

         | 2 | | 6 |
         | 4 | × 3 ⟹ | — |
         | 6 | | — |
         | 8 | | — |

                                                        (5 marks)

7.   What comes next?

     a)   7, 10, 13, ____, ____.

     b)   15, 10, 5, ____.

     c)   ⬆   ➡   ⬇   _____

                                                        (4 marks)

8.   a)   Tony and Maria are playing the battle ship game.

This is Tony's sheet.
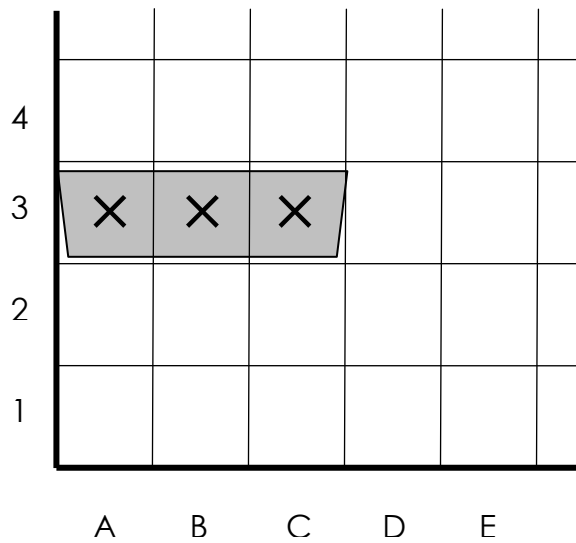
Which squares show the ship?

(A, 3),   (___, ___),   (___, ___).

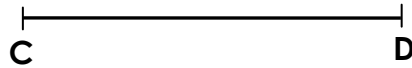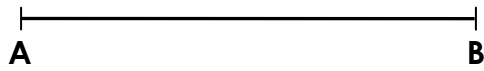b)   Plot the points **B (2, 4)** and **C (4, 1)**
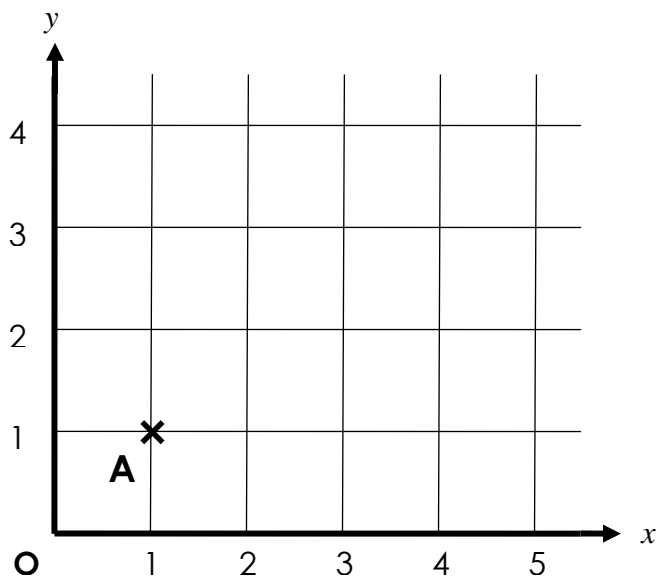
Join A to B, B to C and C to A.
What shape is formed?

Answer _____

(5 marks)

9.   a)   Which is the longer line, AB or CD?

A ├─────────────────────────┤ B

C ├─────────────────┤ D

Answer _____

b)   Fill in:
        Line AB is _____ cm long.

        Line CD is _____ cm long.

c)
A ├────────────────────┼────────────────────┤ D
                      B C

If I put the lines together, end to end,

AD is _____ cm long.

(4 marks)

10.   Look at the shaded shape. Each square has sides of 1 cm.
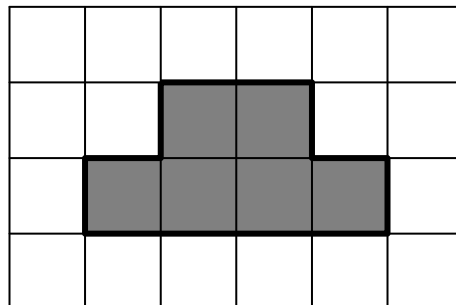
a) The **perimeter** of the shaded shape is _____ cm long.

b) The **area** of the shaded shape is _____ cm².

11. a) Timmy and Pat are playing this board game.

16	15	14	13
9	10	11	12
8	7	6	5
1	2	3	4

They start at 1.

(i) Timmy moves ↑**2**, →**3**, ↓**1**. He is on square _____.

(ii) Pat moves **3 right**, **3 up**, **1 left**. She is on square _____.

(iii) Who is on the larger number? _____.
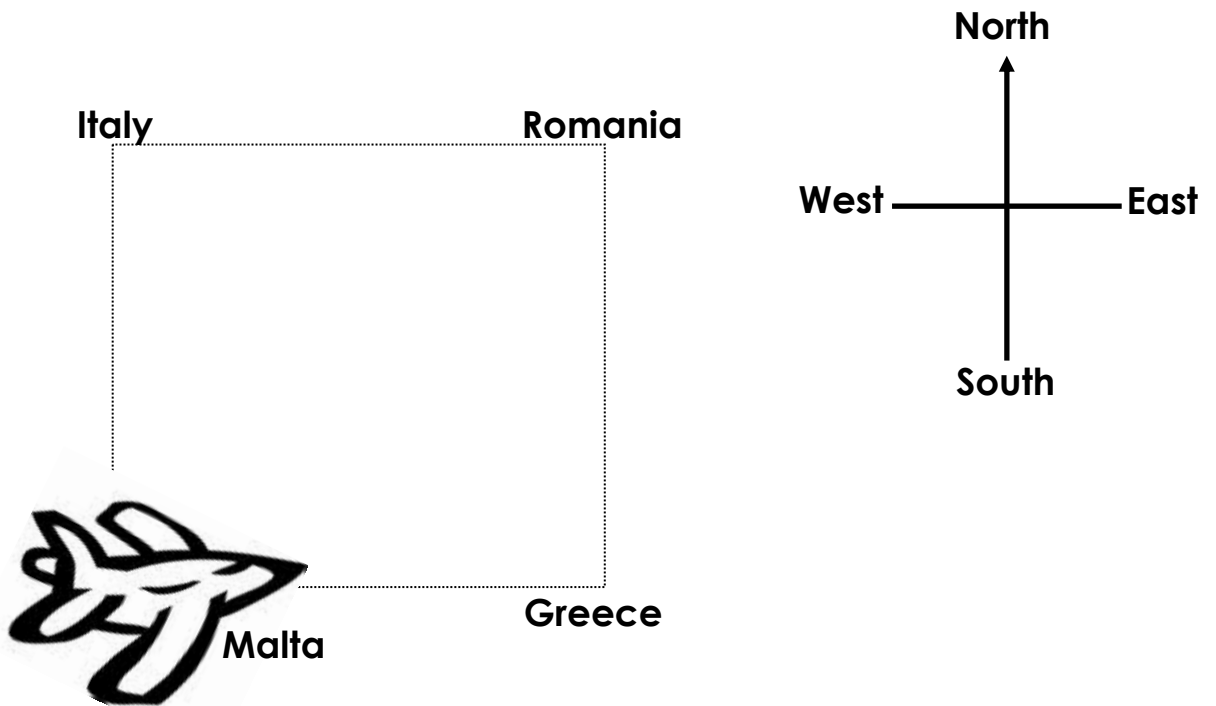
b) Maurice is using LOGO commands. He types:
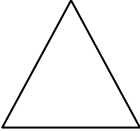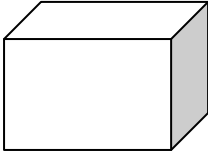
PD RT 90 FD 50 LT 90 FD 50 BK 100.
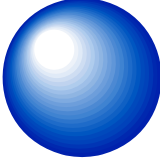
Use these commands to draw the turtle's path.

(6 marks)

12. a)

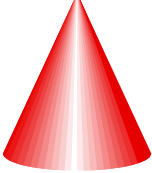Italy   Romania
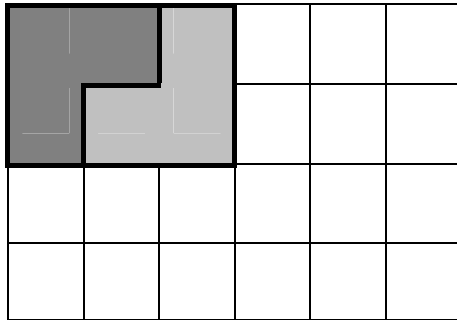
North

West ———|——— East

South
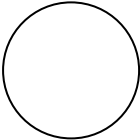
Malta

Greece

(i)   From Malta to Greece, the aeroplane flies _____.

(ii)   From Greece to Romania, the aeroplane flies _____.

(iii) From Romania to Italy, the aeroplane flies _____.

(iv) From Italy to Malta, the aeroplane flies _____.
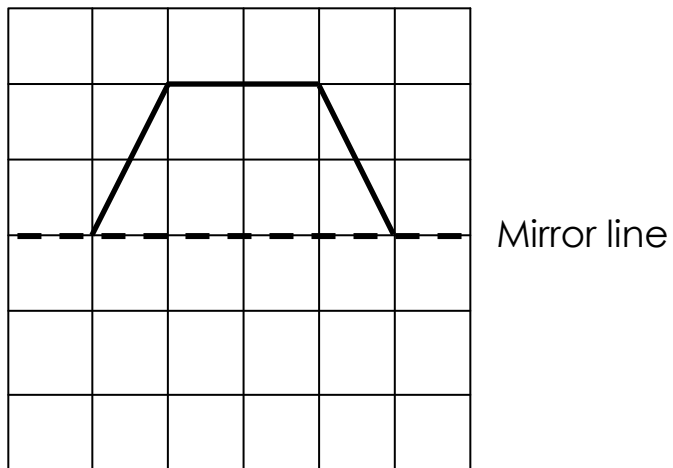
b)   **Match:**

Quadrilateral

Cuboid

Triangle

Cone

Circle

Sphere

(7 marks)

13.   a)   Draw two other similar patterns.

b)   Complete the figure to make it symmetrical.

Mirror line

(2 marks)

14.   a) This pictogram shows the number of cars some families

have.

Family of	Cars	Number
Mr Borg		
Ms Fenech		
Dr Tabone		
Ms Attard		

(i) Complete the table.

Fill in:

(ii) _____ has **most** cars.

(iii) Family of Ms Fenech has _____ cars.

(iv) There are _____ cars **in all**.

b) Fill in:

We can drive cars on one wheel. _____

(Certain, Likely, Unlikely, Impossible.)

(6 marks)

END OF PAPER