END OF PRIMARY BENCHMARK

2014

SECOND SESSION

MATHEMATICS

WRITTEN PAPER

80 marks

1 hour 30 minutes

WRITTEN PAPER

1.	Work out:

a. 438 − 99 = _____ _____	b. 789 + _____ = 2000 _____
c. 20 × 30 = _____ _____	d. 168 ÷ _____ = 7 _____

2a.	**Complete.**

Use the digits in each question **only once**.

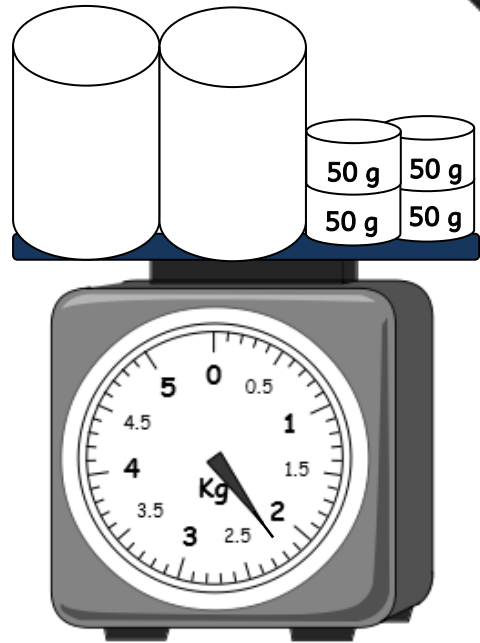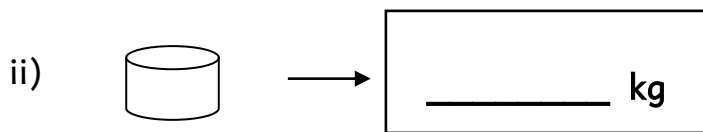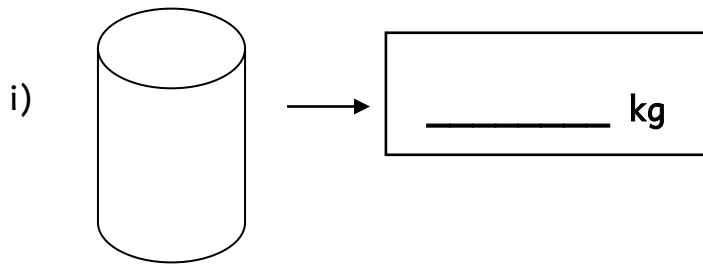i)	Write the **smallest odd** number using ⟨ 3 | 4 | 5 | 6 ⟩ ⟶ _____

ii)	Using ⟨ 1 | 3 | 4 | 5 ⟩ write a number that when **rounded** to the

nearest **100** is **4500**. ⟶ _____

b.	Write these numbers in **ascending order (smallest first).**

⟨ 53·3 ⟩ ⟨ 53 ⟩ ⟨ 5·33 ⟩ ⟨ 0·53 ⟩ ⟨ 5·3 ⟩

_____, _____, _____, _____, _____
  smallest   largest

3a.   The weighing scales below shows a **total weight** of ⎡_____⎤

b.   Complete the following:

i)   ⟶ ⎡_____ kg⎤

50 g 50 g
50 g 50 g

5 0 0.5
4.5   1
4   1.5
Kg
3.5   2
3 2.5

ii)   ⟶ ⎡_____ kg⎤

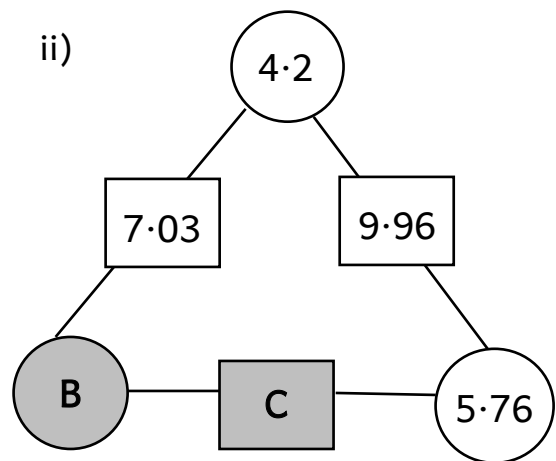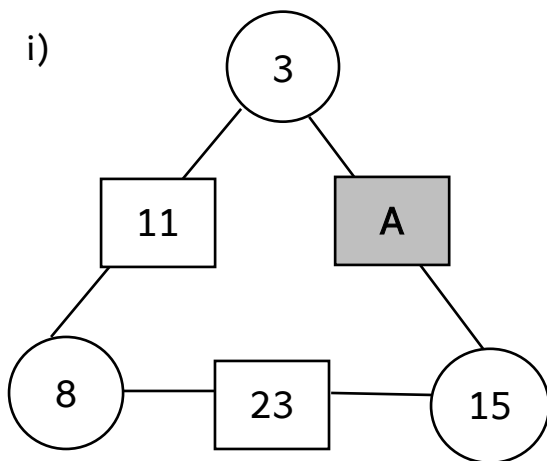
4.   Look at the two diagrams below.
      The number in each rectangle is the sum of the two numbers in the circles
      on each side of the rectangle.
      Work out A, B and C.

i)
       (3)
   [11]   [A]
 (8) [23] (15)

ii)
       (4·2)
   [7·03]   [9·96]
 (B) [C] (5·76)

A = ⎡ ⎤   B = ⎡ ⎤   C = ⎡ ⎤

5. Sue is a book writer. She can type **9 pages** in **27 minutes** using h

a. **How long** does she take to type **1 page**?

_____ minutes

b. How many **pages** can she type in **1 hour 21 minutes**?

_____ pages

c. **How long** will Sue take to type a whole book of **78 pages**?
Give your answer in **hours and minutes**.

_____ hours _____ minutes

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6. The **total length** of a rubber, a key and a pencil is **13 cm**.

Use the ruler in the picture to answer the questions below.
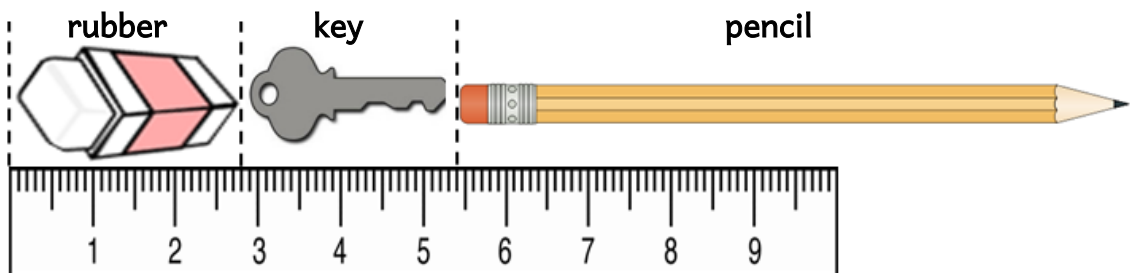
a. What is the **length**, in **cm**, of the **rubber**?

_____ cm

b. What is the **length**, in **cm**, of the **pencil**?

_____ cm

c. What is the **difference**, in **mm**, between the **longest object** and the **shortest object**?

_____ mm

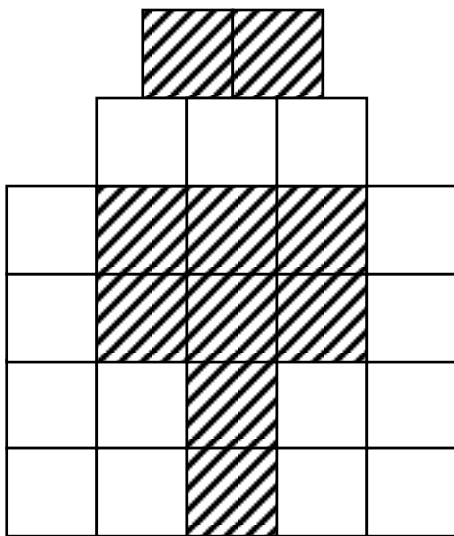7. **Match a – e** and **complete f**.

   The first one has been done for you.

a.	23°		a right angle
b.	45°	a.	an acute angle
c.	90°		$2\frac{1}{2}$ right angles
d.	180°		a clockwise turn from North to North East
e.	225°		the angles on a straight line

   f.   360° ⟶ _____

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8. Look at this shape.

   a. What **fraction** of the shape **is shaded**?
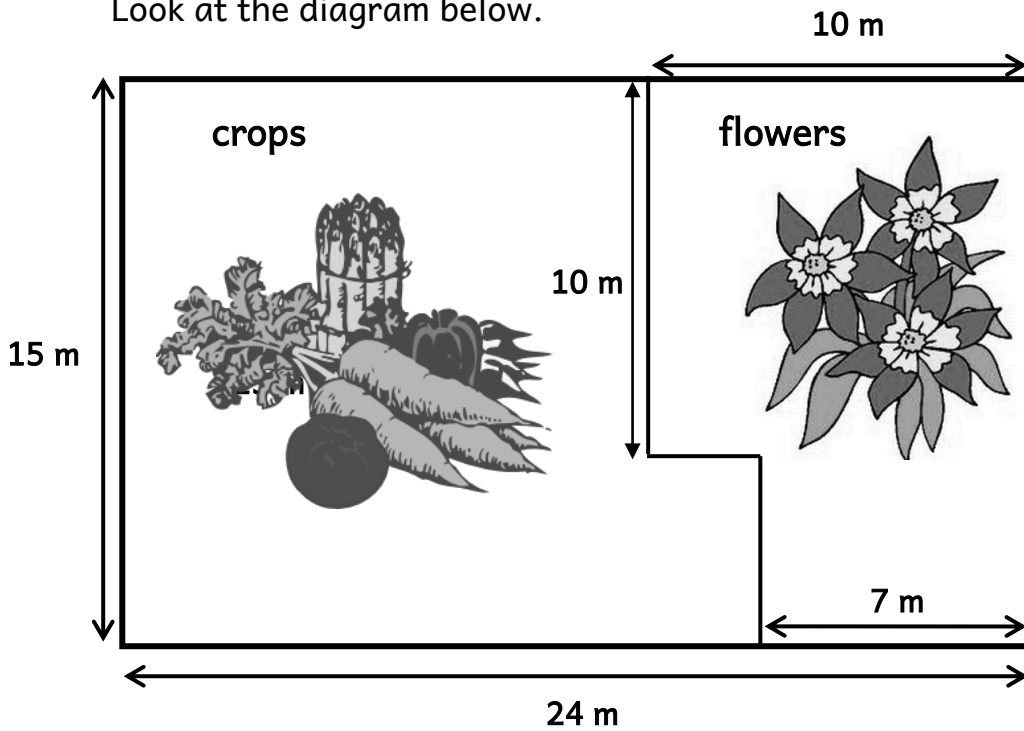   Give your answer in its **simplest form**.

   ____

   b. What **percentage** of the whole shape **is shaded**?

   _____ %

c. S**hade more squares** so that **80%** of the shape **is shaded**.

9. Peter, a farmer, has a rectangular field.
   He uses part of the field for crops and the other part for flowers.
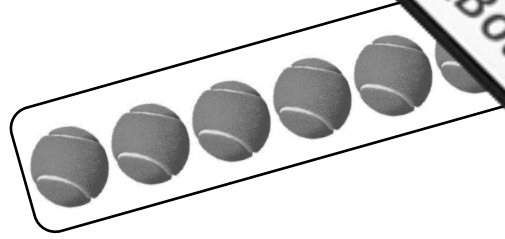   Look at the diagram below.

a. Work out the **perimeter** of the field that Peter uses for **flowers**.

_____ m

b. Work out the **area** of the field that he uses for **crops**.

_____ m²

10. Tom works in a sports shop.
    He packs tennis balls in tubes.

a. **Each tube** contains **6 balls**.
   One box holds **16 tubes** of balls.
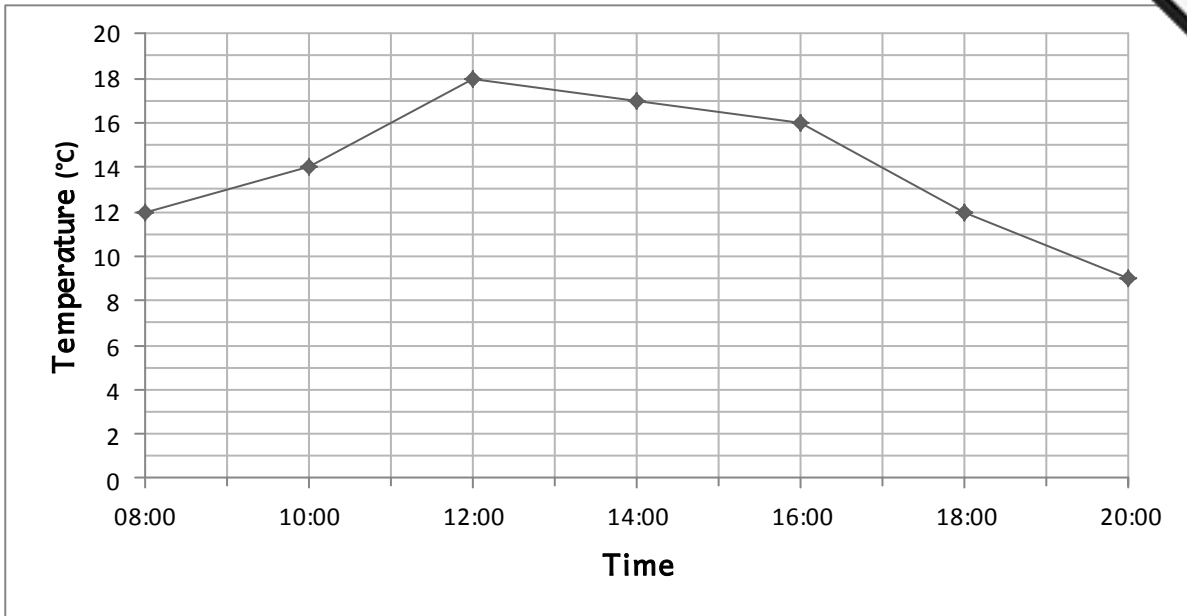   How many **balls** does he have in **one box**?

_____ balls

b.   Tom has **480 tennis balls** to pack.

i)   How many **boxes** does he need to pack **all** the balls?

_____ boxes

ii)   Tom takes **5 minutes** to pack **6 balls in one tube**.
     How long does it take to pack **480 balls** in the tubes?
     Give your answer in **hours and minutes**.

_____ hours _____ minutes

11. This line graph shows the temperatures in °C, in Malta, over 12

a. What is the **temperature** at **midday**?

_____° C

b. What is the **lowest temperature** shown on the graph?

_____° C

c. At what **times** does it reach **16 °C**?

_____ and _____

d. What is the **difference in temperature** between **08:00** and **12:00**?

_____° C

e. What happens to the **temperature** between **16:00** and **20:00**?

_____

_____

12. Maria uses **12 identical squares** to make this shape, Shape A.
Each square is of side **2 cm**.
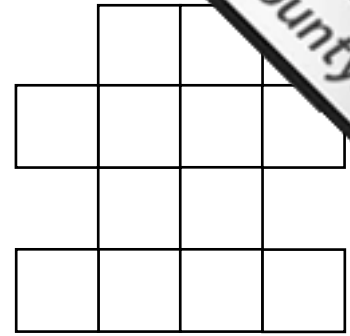
Shape A

a. Work out the **perimeter** of **Shape A**.

_____ cm

b. What is the **area** of **Shape A**?

_____ cm²

c. Maria wants to make another shape.
This new shape will have an **area of 64 cm²**.
How many **squares of side 2 cm** does she need to **add to Shape A**?

_____ more squares

13. The petrol gauge of Tania's car measures from **0 to 48 litres**.
The arrow marks the amount of fuel in the tank.
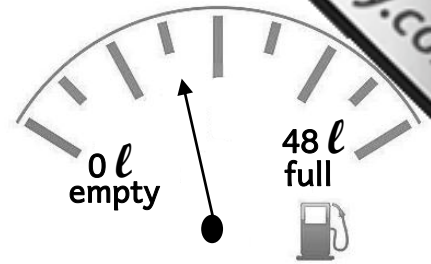
ai) The tank has [_____ ℓ] of petrol.

48 ℓ
full

0 ℓ
empty

ii) How many **more** litres of petrol does Tania need for a **full tank**?

[_____ ℓ]

b. The car uses **750 mℓ** of petrol for every **5 km**.

i) Tania drives a distance of **100 km every day**.

How many **litres** of petrol does she use **every day**?

[_____ ℓ]

ii) Tania fills the fuel tank until it is **full**.

How many **kilometres** does she drive to use **all the petrol** in the tank?

[_____ km]

14. Sam looks at the April 2014 calendar.

		APRIL 2014				
SUN	MON	TUE	WED	THU	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	30			

a. How many **Sundays** were there in April 2014?

_____ Sundays

b. Sam works from **Monday to Saturday**.
He did not work from the **14th to the 19th**.
How many **days** did Sam **work** during the month of April?

_____ days
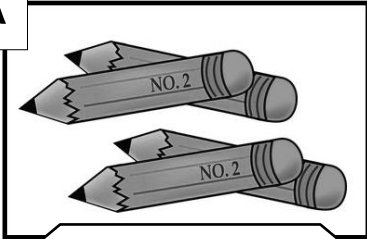
c. Sam celebrates his birthday on the **last day of May**.
In 2014, Sam's birthday was on a:

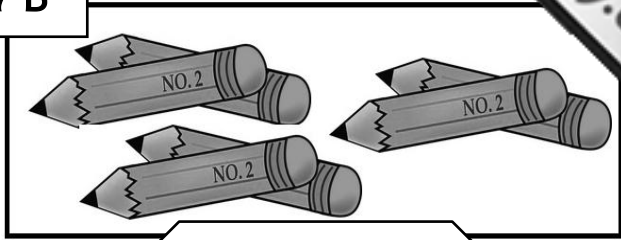Wednesday ☐   Thursday ☐   Friday ☐   Saturday ☐

Tick (✔) the correct answer.

15. A teacher looks at the two offers below.

Offer A

Box of 4 pencils
€0·68

Offer B

Box of 6 pencils
€0·90

a.   Will the teacher **save most money** by choosing **Offer A or Offer B**? Explain.

Offer _____ because _____

_____

_____

b.   The teacher wants to buy 48 pencils for his year 6 students.
     The teacher decides to buy **some boxes with 4 pencils** and **some boxes
     with 6 pencils**.
     He spends a **total of €7·44**.
     How **many** of **each box** does he buy?

_____ boxes of 4 pencils

_____ boxes of 6 pencils

16. Tickets are sold for an afternoon and evening performance of a p
    at the local theatre.
    The theatre is made up of **15 rows**. Each row has **23 seats**.

a. How many people can be seated at the theatre?

```
_____ people
```

b. All tickets are sold for the afternoon performance.
   The prices for the tickets are shown in the table below.
   Find the **total amount** collected from **the sale of all tickets**.

Prices		
Golden Circle	Row 1 to Row 10	€35
Silver Circle	Row 11 to Row 15	€25

```
€ _____
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END OF PAPER

Marking Scheme

Mental Paper	Nos.	1 – 20	20 × 1 mark	=	20 marks
Written Paper	Nos.	1 – 4	4 × 4 marks	=	16 marks
		5 – 12	8 × 5 marks	=	40 marks
		13 – 16	4 × 6 marks	=	24 marks
			TOTAL		100 marks