DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Department of Curriculum Management

Educational Assessment Unit

Annual Examinations for Primary Schools 2015

YEAR 5 MATHEMATICS MENTAL PAPER TIME: 15 minutes

Teacher's Paper

Guidelines for the conduct of the Mathematics Examination – Mental Paper

1. Words written in **bold** should be **emphasised**.
2. Read, **loudly and clearly, each question twice in succession**, and then allow 5, to 10, to 20 seconds as the test progresses through the three sections.
3. Access to rough paper for working out answers is **not allowed**. However, any working on the answer sheet, will not be penalised.
4. The questions should be read out in **English** and **no code-switching/mixing or translation is allowed**. Code-switching is permitted **only** for giving pupils instructions.
5. Before starting the test, read out the following instructions, using **exactly these words**:
   - *I will read out each question twice. Listen carefully. You may write down any information you think is useful whilst I read the questions.*
     Se naqralek kull mistoqsija darbtejn wara xulxin. Ismagħni sew. Tista' tniżżel kull informazzjoni li tħoss li hi bżonjuża waqt li jien inkun qed naqra il-mistoqsijiet.
   - *You will then have time to work your answer. Any working on your answer sheet, will not be penalised.*
     Wara jkollok il-ħin biex twieġeb kull mistoqsija. M'intix se titlef marki jekk tagħmel xi 'working' fuq il-karta.
   - *If you make a mistake, cross out the wrong answer and write the correct answer next to it.*
     Jekk tieħu żball f'xi risposta, aqtagħha u ikteb ir-risposta t-tajba ħdejha.
   - *You will not be allowed to ask questions once the test starts.*
     Ma tistax tistaqsi mistoqsijiet hekk kif jibda t-test.
6. At the end of the test, read out the following instructions, **using exactly these words**:
   - *The test is finished; put down your pens.*
     It-test spiċċa; poġġi l-bajrow fuq il-mejda.

MENTAL PAPER

'For this group of questions, you have 5 seconds to work out each answer and write it down.'

'Għal dawn il-mistoqsijiet li ġejjin, għandek 5 sekondi biex taħseb u tikteb kull risposta.'

1	Look at the numbers on your sheet. **Tick (✓)** the **odd number**.
2	Write **nine thousand, two hundred** in **figures**.
3	**The faces of a cube are all squares**. **Tick (✓)** the correct answer on your sheet.
4	How many **weeks** are there in **one year**? **Tick (✓)** the correct answer on your sheet.
5	Write the **next square number**. **one**, **four**, **nine**, **sixteen**, ...

'For the next group of questions, you have 10 seconds to work out each answer and write it down.'

'Għal dawn il-mistoqsijiet li ġejjin, għandek 10 sekondi biex taħseb u tikteb kull risposta.'

6	**Add one point five** and **one point six**.
7	**Subtract three hundred and seventy five** from **five hundred**.
8	What is **four point five multiplied** by **two**?
9	**Round three hundred and sixty six** to the **nearest ten**.
10	**Write three quarters** as a **decimal number**.
11	How many **millilitres** in **seven point four two litres**?
12	Is the **triangle** on your sheet **equilateral?**
13	Look at the numbers on your sheet. **Tick (✓)** the **multiples of nine**.
14	Look at the angles on your sheet. **Tick (✓)** the **smallest angle**.
15	How many **halves** make **three and a half**?

'For this group of questions, you have 20 seconds to work out each answer and write it down.'

'Għal dawn il-mistoqsijiet li ġejjin, għandek 20 sekonda biex taħseb u tikteb kull risposta.'

16	**Halve two hundred**, then **halve the result again**.
17	Luke wakes up at **twenty minutes to seven**. He leaves home for work **thirty minutes later**. **Tick (✓)** the clock on your sheet that shows **the time Luke leaves home for work**.
18	How many **hours** is it from **nine pm** today to **six am tomorrow**?
19	Work out the **perimeter** of the **rectangle** on your sheet.
20	**One carton** of milk costs **forty three cent**. How much do **eleven** of the same cartons of milk cost?

END OF MENTAL PAPER

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Department of Curriculum Management

Educational Assessment Unit

Annual Examinations for Primary Schools 2015

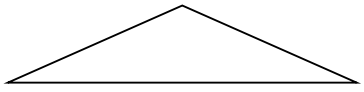
YEAR 5 **MATHEMATICS MENTAL PAPER** **TIME: 15 minutes**

Name: _____ **Class: _____**

Instructions to Candidates

- The teacher will read each question twice. Listen carefully to the teacher.
- You may write down any information you think is useful whilst the teacher is reading.
- You will then have time to work your answer. Any working on your answer sheet will not be penalised.
- If you make a mistake, cross out the wrong answer and write the correct answer next to it.
- You will not be allowed to ask questions once the test starts.
- This paper carries a total of 20 marks.

MENTAL PAPER ANSWER SHEET

1.	4 ☐ 6 ☐ 21 ☐
2.	
3.	Yes ☐ No ☐ Not always ☐
4.	7 ☐ 12 ☐ 52 ☐
5.	
6.	
7.	
8.	
9.	
10.	
11.	*ml*
12.	 Yes ☐ No ☐

13. 9 ☐ 16 ☐ 18 ☐

14.  ☐

2 $\frac{1}{2}$ right angles ☐

45° ☐

15.

16. 200 → ☐ → ☐

17.  ☐

 ☐

 ☐

18. ☐ hours

19.	9 cm 2 cm _____ cm
20.	€

43 cent

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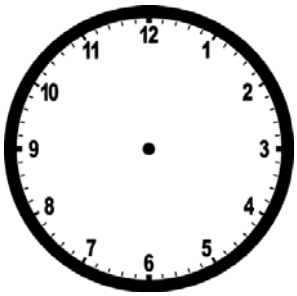
Year 5 **MATHEMATICS** **Time: 1h 15min**

Name: _____ **Class:** _____

1. Work out.

(a)	☐ + 35 = 100
(b)	1000 − 214 = ☐
(c)	**Add** these. 3000 700 4 ☐
(d)	How many **minutes** in **3 hours**? _____ **minutes**
(e)	How many **20-cent coins** to make **€1·40**? _____ 
(f)	(i) ☐ ÷ 7 = 2 r 1 (ii) ☐ ÷ 8 = 9

(g)	Draw the hands on the clock face to show **4:30 (half past 4)** . 
(h)	19 + 33 + ☐ = 80
(i)	Write these **fractions in order** starting from the **smallest.** $\frac{3}{4}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{4}$ _____ , _____ , _____ , _____ **smallest** **largest**
(j)	Which two **square numbers add up to 34?** ☐ + ☐ = 34

2. Below is a **Carroll diagram**.
   Put these numbers in the Carroll diagram.

1 **2** **3** **4** **5** **6** **10** **12**

	multiple of 2	**not a multiple of 2**
multiple of 3		
not a multiple of 3		

Name: _____ **Class:** _____

3. Use the number cards below to make 3-digit numbers that round to the **nearest ten** shown.

   Note: Each number card can be used more than once.

(a) ☐☐☐ → **250**

(b) ☐☐☐ → **360**

(c) ☐☐☐ → **530**

(d) ☐☐☐ → **840**

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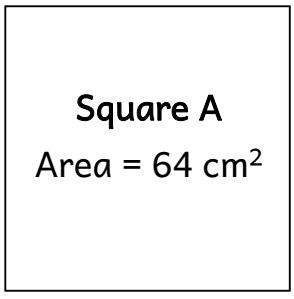
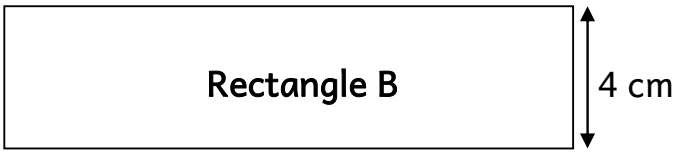
4. **Square A** and **Rectangle B** have the **same area**.

   What is the **length** of **Rectangle B**?



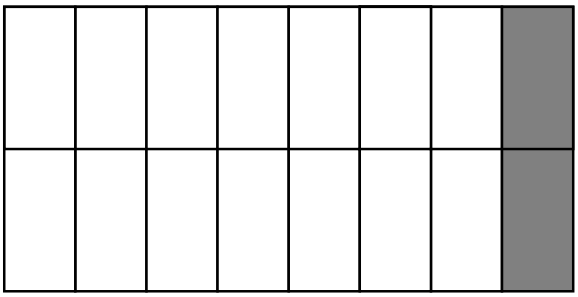


The **length of Rectangle B** is _____ **cm**.

Name: _____ **Class:** _____

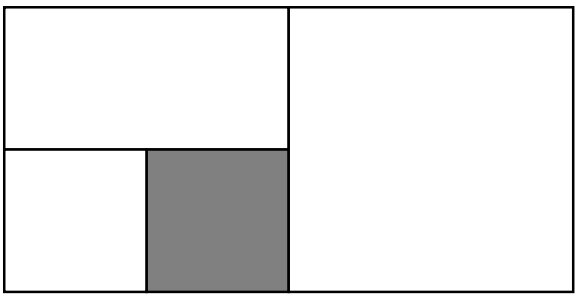
5a) What fraction is **shaded**?

(i)



$\frac{\quad}{\quad}$

(ii)



$\frac{\quad}{\quad}$

5b) Maria has some sweets.

She gives **4 sweets** to her brother and has **12 sweets left**.

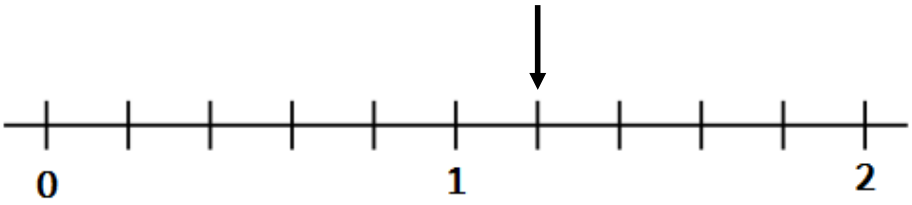
What **fraction of the sweets** does Maria **give to her brother**?

You can show your working here

Tick (✓) the correct answer.

(i) $\frac{1}{3}$ ☐ (ii) $\frac{1}{4}$ ☐ (iii) $\frac{1}{12}$ ☐ (iv) $\frac{3}{4}$ ☐

6a) Look carefully at the number line below.



(i) What **decimal number** does the arrow show? _____.____

(ii) What **fraction** does the arrow show?

6b) **Read all the clues** to **work out** the number.

(i) The digit **4** is in the **tenths** place.
(ii) The **value** of the digit **6** is **600**.
(iii) The digit in the **units place** is the **smallest odd number**.
(iv) The digits in the **tens place** is **double** the digit in the **units place**.

The number is

---

7. **4 boys** have a **total** of **€17.**
They **share** it **equally**.
How much do they get **each**?

€_____

8. Look carefully at the calendar.

2015 AUGUST						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						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	

(a) **Complete the calendar** above for August 2015.

(b) **Tick (✓)** the **two statements** that are true.

In 2015, August 10th is a Monday.	
There are 4 Saturdays in August 2015.	
In 2015, July 31st is a Friday.	
In 2015, September 2nd is a Friday.	

(c) Ella is invited to a party on the 23rd August 2015.
The party will start at **quarter to 5** and finish at **quarter past 7** in the afternoon.
How long, in minutes, is the party?

_____ minutes

9. *a*) **Tick (✓) *area*** which is the **best estimate**.

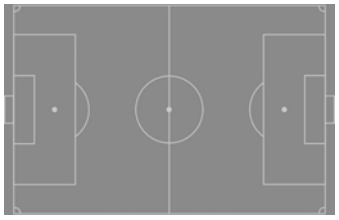
(i) The **area** of **a stamp**.

2 mm² ☐

2 cm² ☐

2 m² ☐

(ii) The **area** of **a football ground**.

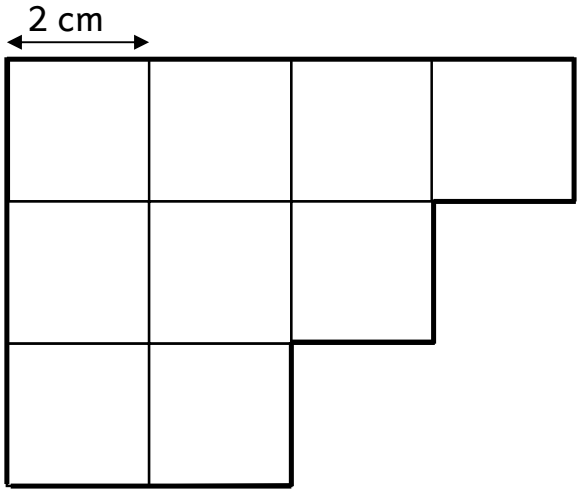


7140 cm² ☐

7140 m² ☐

7140 km² ☐

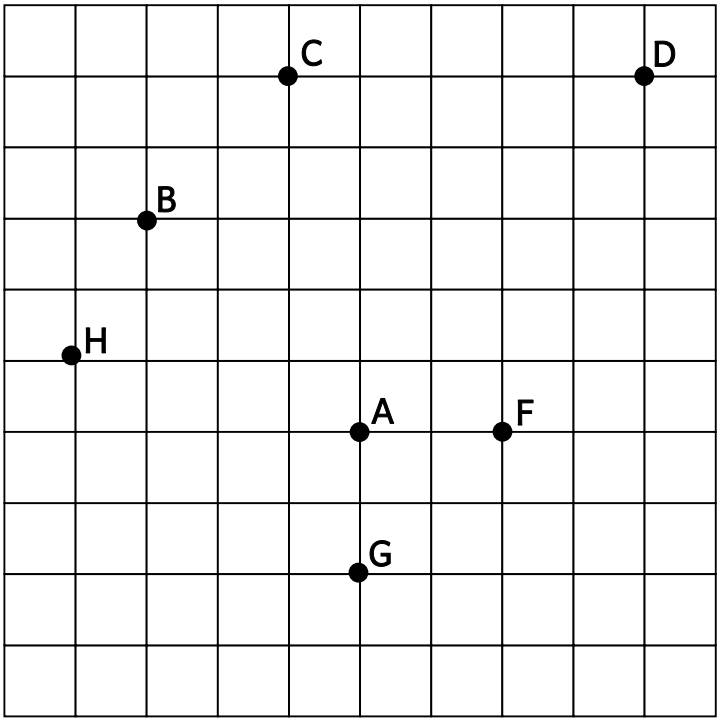
(b) Look carefully at this shape.
All squares making up this shape are of the **same size**.
Work out the **perimeter** of this shape.



You can show your working here

_____ **cm**

10. Look carefully at the diagram below.



(*a*) Which **direction** is:

(i) **Point D** from **Point C**? _____

(ii) **Point F** from **Point G**? _____

(iii) **Point G** from **Point A**? _____

(iv) **Point A** from **Point F**? _____

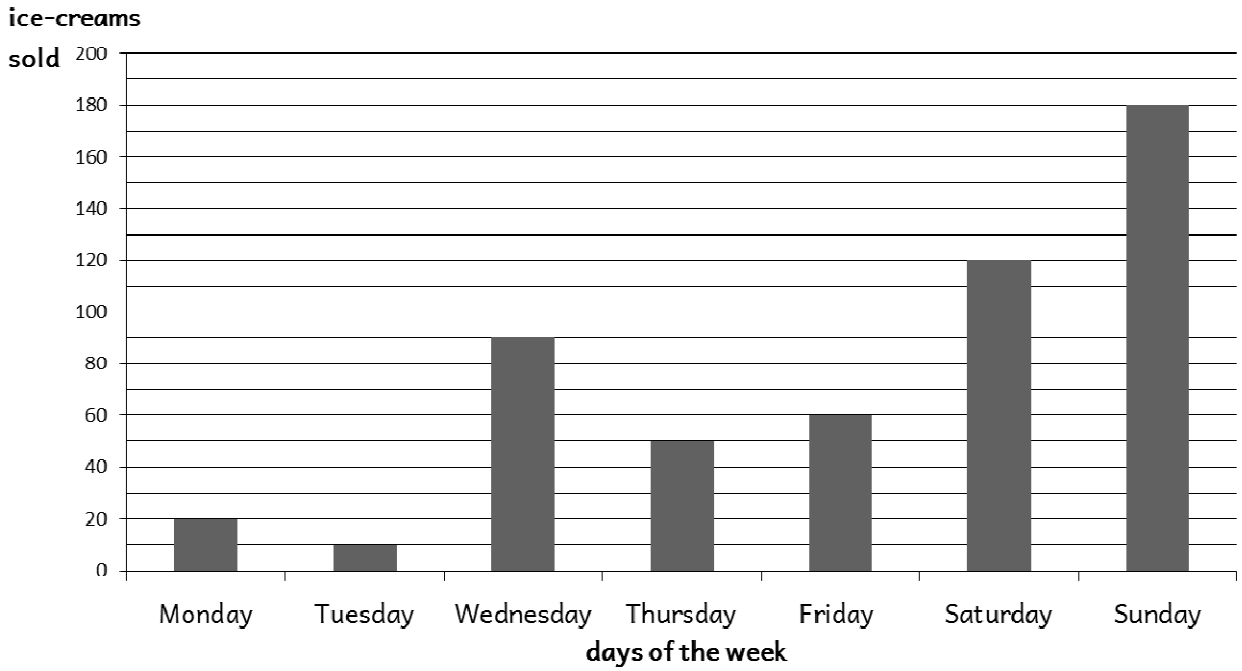
(b) Anna is at **Point B** and is looking **North**.

She turns $2\frac{1}{2}$ **right angles anticlockwise**.

Which **Point** is she facing?

Point _____

11. The block graph below shows the number of ice-creams sold in *a* week.



(*a*) How many ice-creams were sold on:

i) **Monday?** → ☐ **ice-creams** ii) **Wednesday?** → ☐ **ice-creams**

(b) The number of ice-creams sold on ☐ was **double** the number of ice-creams sold on ☐.

(c) The ice-cream vendor gets **€15** for every **10 ice-creams** he sells.
On which day did he get **€75**?

You can show your working here

☐

12a) Robert buys some apples.

He puts the apples in a basket.

The weight (mass) of **the empty basket** is **200 g**.

The weight (mass) of **the basket and the apples** is **2 kg**.

What is the weight (mass) of the **apples**?

You can show your working here

_____ kg _____ g

(b) Sam and Diane also buy apples.

Sam buys **1 kg 50 g**.

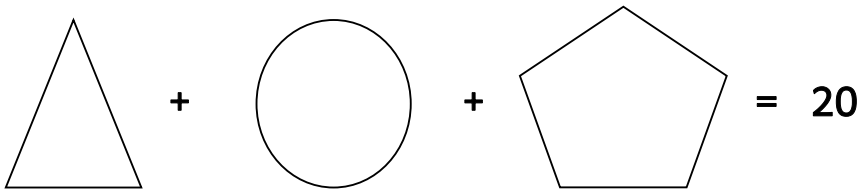
Diane buys **150 g of apples more** than Sam.

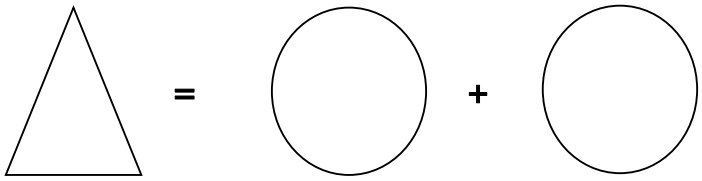
What is the **total weight (mass) of apples** Sam and Diane buy **altogether**?

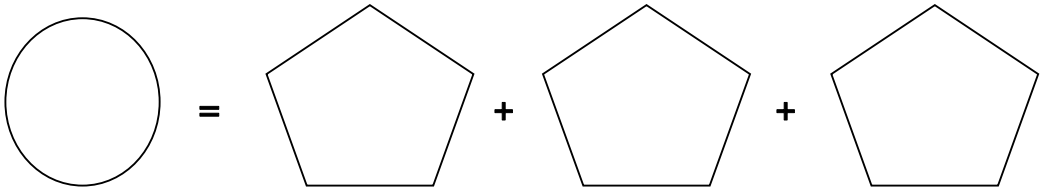
You can show your working here

_____ kg _____ g

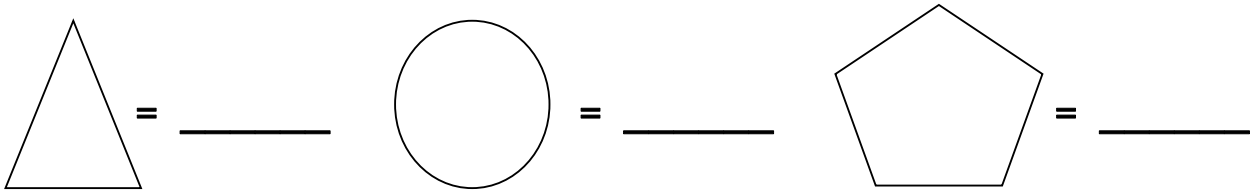
13. Each of the three different shapes below represents an **EVEN number**. What is the **value** of **each shape**?







You can show your working here



END OF PAPER

Marks' Scheme	Nos.	1 *a* - j	10 × 2	=	20
		2 - 7	6 × 4	=	24
		8 - 13	6 × 6	=	36
				TOTAL	80