

**THERESA NUZZO SCHOOL MARSA**  
**ANNUAL EXAMINATIONS 2017-2018**

**MATHEMATICS**

**MENTAL PAPER**

**GRADE 5**

**Teacher's Paper**      **TIME: 15 minutes**

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**. Any working on the answer sheet, however, will not be penalised.
  
4. The questions should be read out in **English** and **no code-switching/mixing 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 both times. You will then have time to work your answer.*

*Se naqralk kull mistoqsija darbtejn wara xulxin. Ismagħni sew. Wara jkollok il-ħin biex twegibha.*

• *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 any questions once the test has started. 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 spicča; poggj l-bajrow fuq il-mejda.*

### **MENTAL PAPER**

*For the first group of questions, you will 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.'*

*'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. Write the number **seven thousand, three hundred and seventy-six** in **figures**.
2. How many **vertices** does a **square based pyramid** have?
3. How many **cm** in **3m**?
4. Write the **next odd number** after **forty-five**?
5. How many **weeks** in a **year**?

**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. **Change  $\frac{17}{5}$  into a mixed number .**
7. How many **lots of seven** in **fifty-six**?
8. What is **double ninety-eight**?
9. **Multiply thirty-five by hundred.**
10. Write **7 tenths** as a **decimal fraction**.
11. **Round eight hundred thirty-seven** to the **nearest hundred**.
12. The boy slept from **9:30 pm** to **11:30 pm**. How many **minutes** did he sleep?

13. Write a **fraction** with the **denominator 8** which is equivalent to  $\frac{1}{4}$ .
14. What is the **angle turned** by the **minute hand** in a **quarter of an hour**? **Give answer in degrees.**
15. How many **halves** in **six 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. In a school there are **80 children**. **Three quarters** of the children are **girls**.  
How many **boys** are there?
17. How many **five cent coins** make a total of **one euro**?
18. How many **minutes** in **3 and one half hours**?
19. Rubbers are sold in **packets of 6**. I need **38 rubbers**. How many **packets** do I need to buy?
20. The **area** of a **square field** is **36m<sup>2</sup>**, what is its **perimeter**?



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**MATHEMATICS**  
**Grade 5**

**Name:** \_\_\_\_\_ **Register No** \_\_\_\_\_

**Class** \_\_\_\_\_

**Mental Paper Time: 20 minutes**

**Mark**

**Written Paper Time 1hour 30 minutes**

**Mark**

**Total Mark**

1	
---	--

2	vertices
---	----------

3	cm
---	----

4	
---	--

5	weeks
---	-------

6	
---	--

7	
---	--

8	
---	--

9	
---	--

10	
----	--

11

12

minutes

13

14

0

15

halves

16

boys

17

coins

18

minutes

19

packets

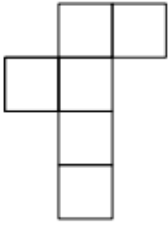
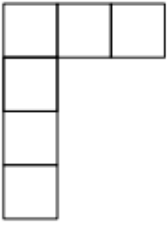
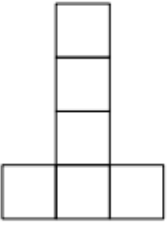
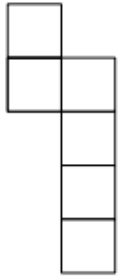
20

m

1 a - j	$10 \times 2 = 20$
2 - 7	$6 \times 4 = 24$
8 - 13	$6 \times 6 = 36$
	<b>TOTAL 80</b>

**1. Fill in:**

a	i) $69 + \boxed{\phantom{00}} = 100$	ii) $7.9 + 2.3 = \boxed{\phantom{00}}$
b	i) $42 \div 6 = \boxed{\phantom{00}}$	ii) $32.6 \times 100 = \boxed{\phantom{00}}$
c	i) $6\text{km } 567\text{m} = \boxed{\phantom{000}}\text{m}$	ii) $9\ell 57\text{ml} = \boxed{\phantom{00}}\text{ml}$
d	i) Write the <b>digit</b> which is in the <b>tens</b> place in <b>5 687</b> ? $\boxed{\phantom{00}}$	
	ii) What is the <b>value</b> of <b>7</b> in <b>56. 37</b> ? $\boxed{\phantom{00}}$	
e	<b>Write the next two numbers.</b>	
	(i) 200, 225, 250, _____, _____	
	(ii) 36, 32, 28, 24, _____, _____	
f	i) Write <b>3.17</b> to the nearest <b>whole</b> number $\boxed{\phantom{00}}$	
	ii) Write <b>378</b> to the nearest <b>ten</b> $\boxed{\phantom{00}}$	

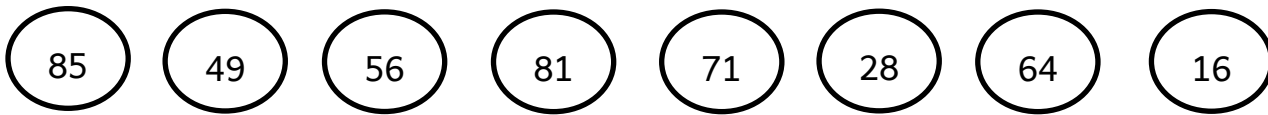
<p>g</p>	<p>Tick (✓) the two nets of a cube.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>( )</p> </div> <div style="text-align: center;">  <p>( )</p> </div> <div style="text-align: center;">  <p>( )</p> </div> <div style="text-align: center;">  <p>( )</p> </div> </div>
<p>h</p>	<p>Complete:</p> $8 \times 59 = (8 \times \boxed{\phantom{00}}) + (\boxed{\phantom{00}} \times 9)$
<p>i</p>	<p>Which numbers add up to 3.57?</p> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="border: 2px solid blue; padding: 5px; margin: 5px;">0.5</div> <div style="border: 2px solid blue; padding: 5px; margin: 5px;">50</div> <div style="border: 2px solid blue; padding: 5px; margin: 5px;">7</div> <div style="border: 2px solid blue; padding: 5px; margin: 5px;">0.07</div> <div style="border: 2px solid blue; padding: 5px; margin: 5px;">3</div> <div style="border: 2px solid blue; padding: 5px; margin: 5px;">300</div> </div> <p>Numbers are <span style="border: 2px solid blue; display: inline-block; width: 40px; height: 20px; vertical-align: middle;"></span> <span style="border: 2px solid blue; display: inline-block; width: 40px; height: 20px; vertical-align: middle;"></span> <span style="border: 2px solid blue; display: inline-block; width: 40px; height: 20px; vertical-align: middle;"></span></p>
<p>j</p>	<p>i) Shade <math>\frac{2}{3}</math></p> <div style="border: 1px solid black; display: flex; width: 300px; height: 40px; margin: 10px 0;"> <div style="flex: 1;"></div> <div style="flex: 1;"></div> <div style="flex: 1;"></div> <div style="flex: 1;"></div> <div style="flex: 1;"></div> <div style="flex: 1;"></div> </div> <p>ii) Insert &lt; or &gt;</p> $\frac{1}{2} \quad \boxed{\phantom{00}} \quad \frac{2}{3}$

(20 marks)



2. Below is a Carroll diagram.

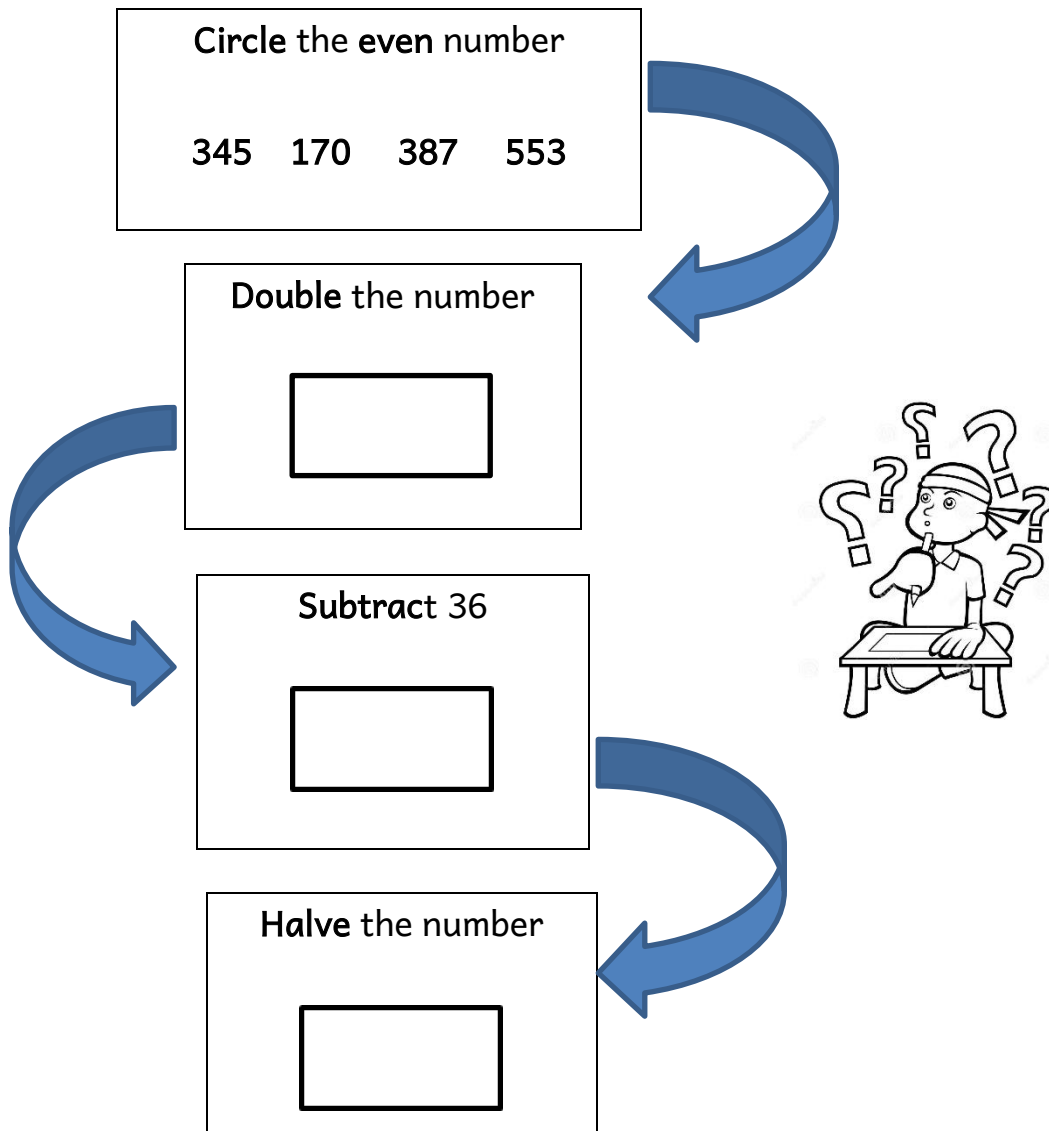
Put these numbers in the Carroll diagram.



	Even	Odd
Square number		
Not a square number		

(4 marks)

3a.



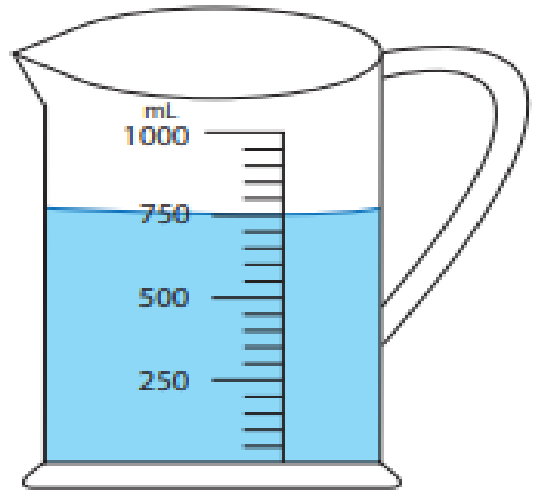
(4 marks)

4a. A bottle contains **586ml** of milk. Jack pours **half a litre** from it. How much milk is left?



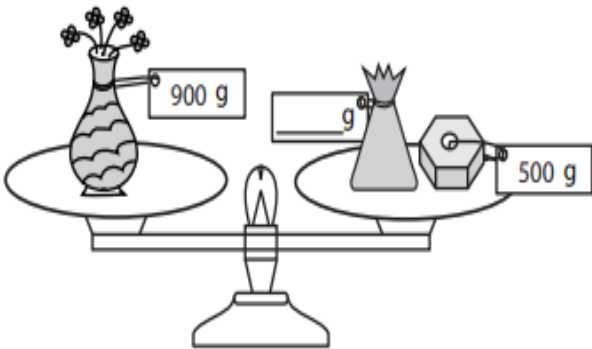
\_\_\_\_\_ ml

4b. If you add **200ml** of water in the jug, what would be the **new reading**?



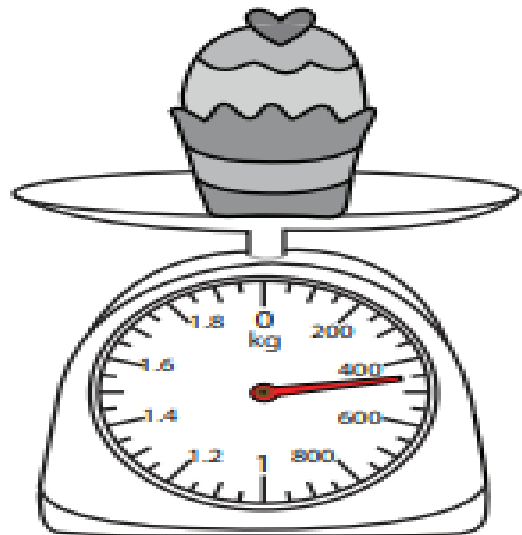
\_\_\_\_\_ ml

4c. Calculate the **unknown weight** to **balance** the scale.



\_\_\_\_\_ g

4d. **Measure the weight** of the object.



\_\_\_\_\_ g

(4 marks)

5. Mario's family goes to the Eurovision Song Contest.

The show starts at 7:30 pm.

i) Show this time on the clock.



The show ends at 10:20pm.

ii) How long is the show?

iii) If it takes the family 45 minutes to arrive at home.

_____ hrs _____ min
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At what time will they be home?

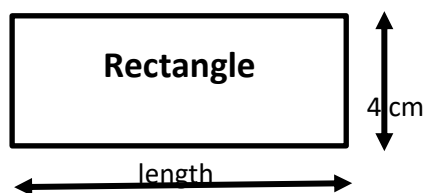
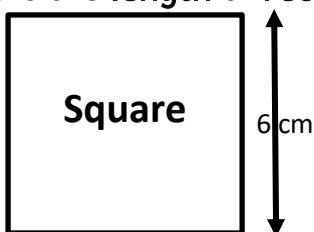
_____ : _____
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(4 marks)

6. The length of one side of the square is 6cm.

The square and rectangle have the same area.

What is the length of rectangle if its breadth is 4cm?



The length of rectangle is

_____ cm
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(4marks)

7. The table below show the plants sold by 4 children during a charity fair.

Name	Number of plants sold
Maria	42
Jane	54
Paul	34
Joseph	27

a. Work out the number of plants sold by all the children.

\_\_\_\_\_ plants

b. Mum said that the boys sold more plants than the girls.

Is she right? Tick ( ✓ ) the right answer. Yes

No

Give a reason for your answer.

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The children have collected €157.80 for charity. Their target is to collect €360

How much money do they need to reach their target?



€ \_\_\_\_\_

(4marks)

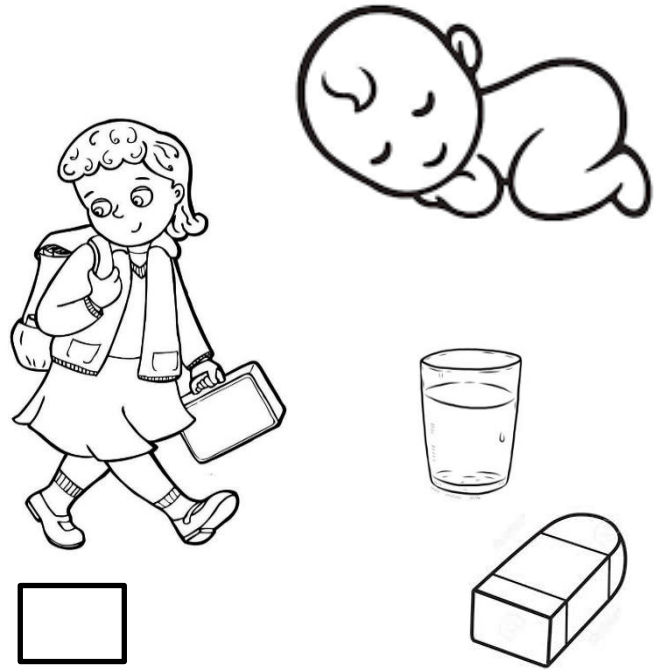
8a. Two of these sentences can be true. Tick (✓) the two sentences that can be true.

(i) Alan's rubber is 12 metres long.

(ii) Baby Mario weighs 3kg.

(iii) Maya is 2cm tall.

(iv) Jane's glass can hold 250 millilitres of water.



b. i) The **distance** from Ċirkewwa to Valletta is  $29\frac{1}{2}$  km.

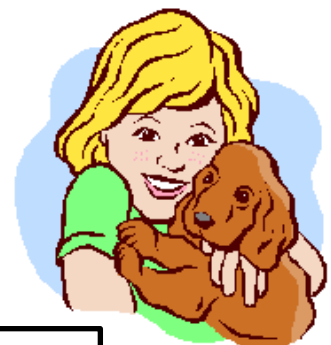
$29\frac{1}{2}$  km is equal to \_\_\_\_\_ m.

ii) It takes John **1 hour 25 minutes** to arrive to Valletta by bus to Ċirkewwa.

**1 hour 25 minutes** is equal to \_\_\_\_\_ minutes.



c. Alexia wants to find out the **weight** of her dog Sparky. She **weighs herself** and notes that the scale shows **49 kg**. She then steps on the scale **holding her dog** and the scale shows **53.2 kg**. What is the **weight** of Sparky?



\_\_\_\_\_ kg

(4marks)

9. Karl finds these coins in his money box.

Coins	2c	5c	20c	€1
Number of Coins	15	8	8	4

a. Work out the total amount of money that Karl has in his money box.

€ \_\_\_\_ . \_\_\_\_

b. Karl collects Panini World Cup Stickers. Each packet costs 90c. How many packets can he buy with the money he has?



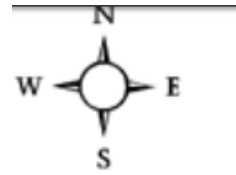
\_\_\_\_\_ packets

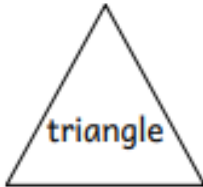

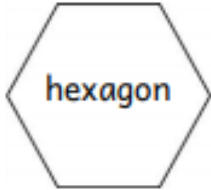


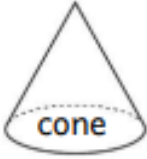
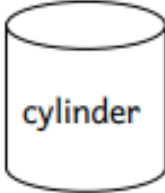
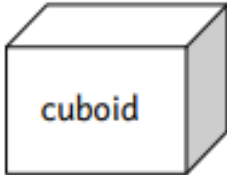
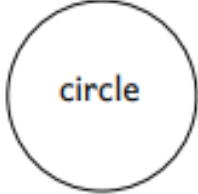
c. His friend John buys 34 packets of Panini World Cup Stickers. Each packet contains 5 stickers. How many stickers does John have?

\_\_\_\_\_ stickers

(6 marks)

10. Look carefully at the grid below.



 triangle	 pentagon	 hexagon
 square	 rectangle	 cone
 cylinder	 cuboid	 circle

a) Fill in with the correct shape.

i) The circle is SE of the \_\_\_\_\_

ii) The \_\_\_\_\_ is S of the triangle.

b. Fill in with the correct direction.

i) The triangle is \_\_\_\_\_ of the rectangle.

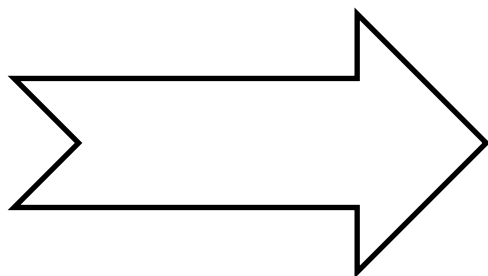
ii) The pentagon is \_\_\_\_\_ of the square.

c. A turn of  $2\frac{1}{2}$  right angle is \_\_\_\_\_°.

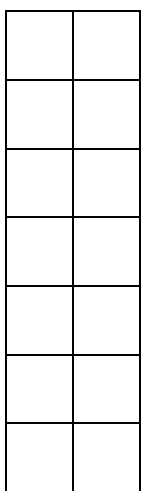
d. The angle turned from North West to South in clockwise direction is \_\_\_\_\_°.

(6 marks)

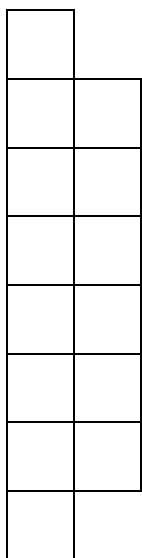
11a. Draw all the possible lines of symmetry, if any, of the following two shapes.



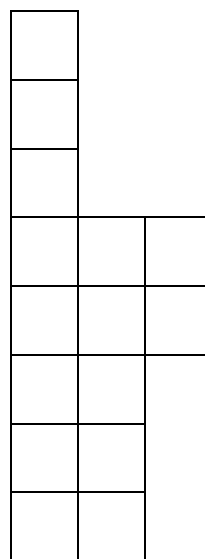
b. Which **two** of the shapes below have the **same area**?



( )

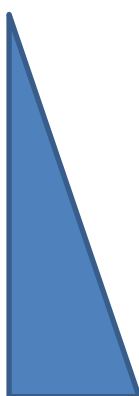


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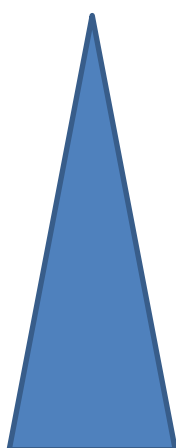


( )

c. Choose the **two isosceles** triangles.



( )



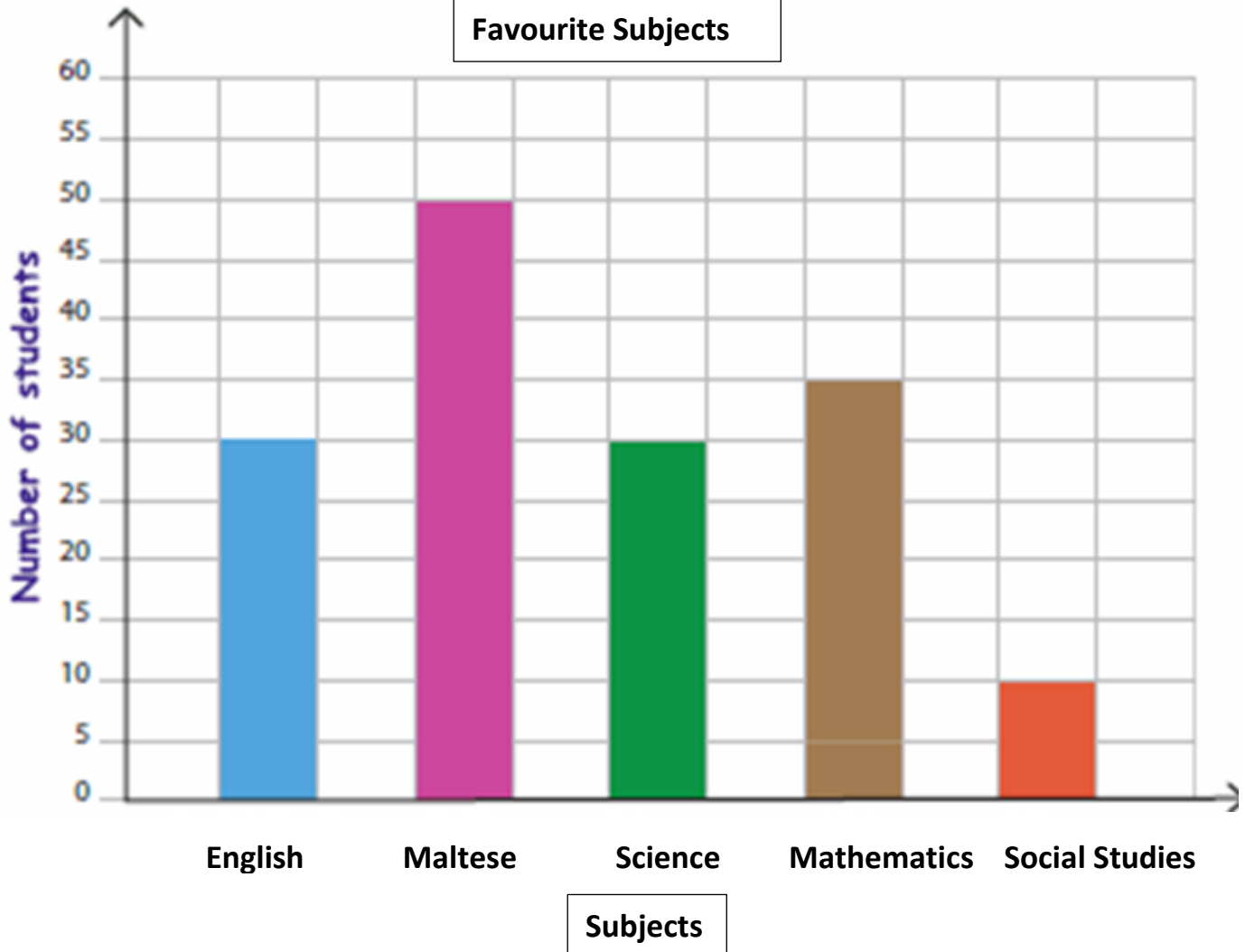
( )



( )



12. Ms Xerri, a teacher of Primary School, recorded the favourite subjects of her students in a bar graph. Use the graph to answer the questions.



- Which subject is the **most** popular? \_\_\_\_\_
- Which subject is **least** popular? \_\_\_\_\_
- Which **subjects** have the **same** votes? \_\_\_\_\_ and \_\_\_\_\_
- How many **pupils** were **surveyed**? \_\_\_\_\_
- $\frac{2}{5}$  of the students who liked **Science** were **girls**. How many **boys** liked **Science**?  
\_\_\_\_\_

13. This is the calendar for the month of August 2018.

2018 AUGUST						
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			

a. **Complete** the calendar for August 2018.

b. The **last day** of July is \_\_\_\_\_.

c. A group of **8 friends** are going to Italy on the **third Wednesday** of August.

i) Which **date** is this? \_\_\_\_\_

ii) The **flight ticket** costs **€75 each**. What will be the **total cost** for the **group of 8 friends**?

€ _____
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iii) Mrs Jones is going to give **€132** spending money to her **3 children**. How much does **each** receive?

€ _____
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\_\_\_\_\_ The End \_\_\_\_\_