

MENTAL PAPER year 5 Annual 2020 - 2021

'For the following 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 taħdem u tikteb kull risposta.'

1. Name a **solid** which has **0 vertices**.
2. How many **lines of symmetry** does a **regular hexagon** have?
3. What are **3 lots of 7**?
4. Which of these numbers is **not a factor of sixteen: two, three, four or eight**?
5. Jane says her birthday is **in 42 days**. How many **weeks** away is her birthday>?

'Għal dawn il-mistoqsijiet li ġejjin, għandek 10 sekondi biex taħdem u tikteb kull risposta.' For the following group of questions, you have 10 seconds to work out each answer and write it down.'

6. Write the number **twenty-five thousand four hundred and five** in **digits**.
7. What must be **added** to **175** to get a **total** of **200**?
8. What must be **added** to **0.6** to **add up to 1**?
9. Write the **answer** for **9.76 multiplied by 100**.
10. Write **3.02** as a **a mixed number**.
11. Write the next **odd number: 35,37,39,_____**
12. **Double 276**.
13. **Round 678** to the nearest **10**.
14. **How many degrees** in **1 ½ right angles**?
15. **Subtract thirteen point five** from **sixteen**.

'For the following 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 taħdem u tikteb kull risposta.'

16. What is the **perimeter** of a **square** whose side is **40cm**.
17. Melvin thinks of a **number**. When he **divides** this number by **10**, the **answer is 360**. Which **number** did he think of?

18. A bottle of water holds **two litres**. Maya drinks **a quarter of a litre** from the bottle. Jack drinks **200ml**. How **many ml** of water are **left** in the bottle?
19. Maria buys **49 pencils** at **99c each**. What is the **approximate cost** of all the **pencils**? **Give the answer in €**
20. Mandy puts **only twenty-cent coins** in her money box. There are **seventy such coins** in her money box. How much **money** does Mandy have in her money box?
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THERESA NUZZO SCHOOL MARSA
ANNUAL EXAMINATIONS 2020-2021
MATHEMATICS
Grade 5

Name: _____ **Register No** _____

Class _____

Mental Paper Time: 20 minutes

Mark

Written Paper Time 1hour 30 minutes

Mark

Total Mark

1	
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2	lines
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3	
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4	
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5	days
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6	
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7	
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8	
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9	
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10	
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11	
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12	
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13	
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14	0
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15	
----	--

16	cm
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17	
----	--

18	ml
----	----

19	€
----	---

20	€ ____.
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1 a - j	$10 \times 2 = 20$
2 - 7	$6 \times 4 = 24$
8 - 13	$6 \times 6 = 36$
	TOTAL 80

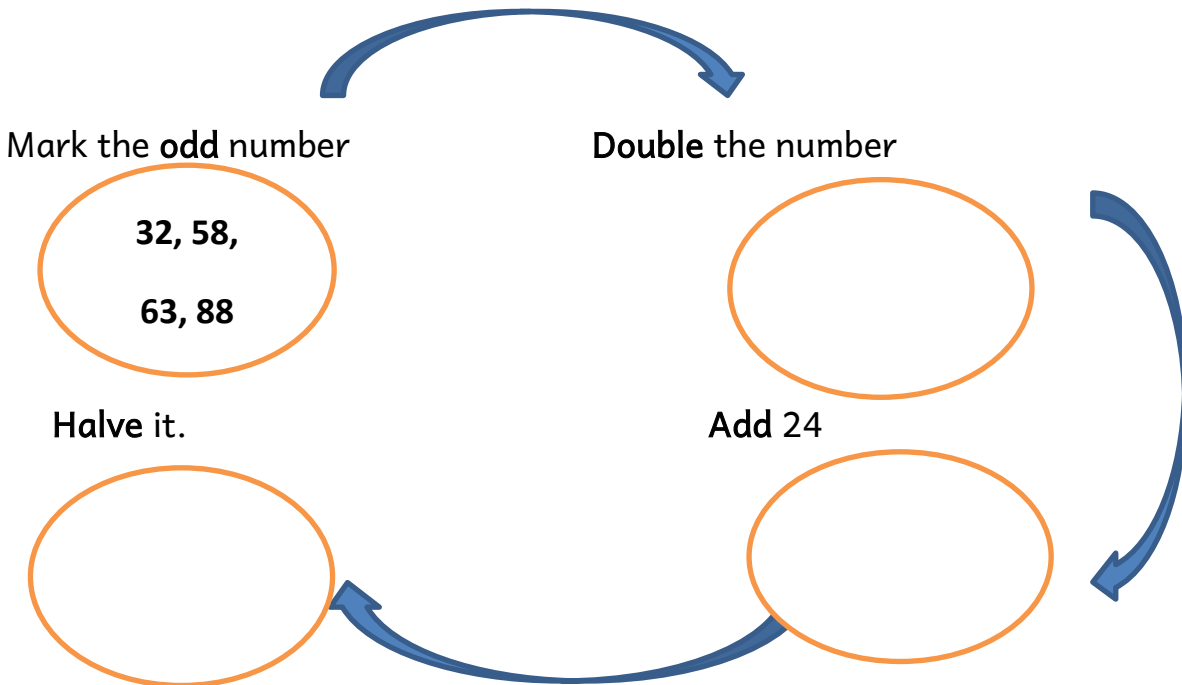
1. Fill in:

a	i) $63 + \boxed{} = 100$	ii) $6.5 + \boxed{} = 10$
b	i) $24 \div 4 = \boxed{}$	ii) $28 \times 100 = \boxed{}$
c	i) $8 \times \boxed{} = 240$	ii) $3600 \div \boxed{} = 360$
d.	i) $30 \times 40 = \boxed{}$	ii) $500 \times 30 = \boxed{}$
e	i) Write the digit which is in the tens place in 6 123 ? $\boxed{}$	
	ii) What is the value of 7 in 3.79 ? $\boxed{}$	
f	i) $2.1 \div 10 = \boxed{}$	ii) $2.8 \times 100 = \boxed{}$
g	Insert < > or =	
	i) $3.5 \quad \boxed{} \quad 0.35$	ii) $0.2 \quad \boxed{} \quad 0.02$

h	<p>Complete:</p> <p>i) 190 minutes = <input type="text"/> hours <input type="text"/> minutes</p> <p>ii) $\frac{1}{2}$ hour = <input type="text"/> minutes</p>
i	<p>Complete : i) $\frac{1}{3} = \frac{\square}{6}$ ii) $\frac{4}{5} = \frac{20}{\square}$</p>
j	<p>Put in ascending order: 4.32, 43.2, 4.4, 0.432</p> <p><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>

(20 marks)

2. Fill in the empty boxes.



(4 marks)

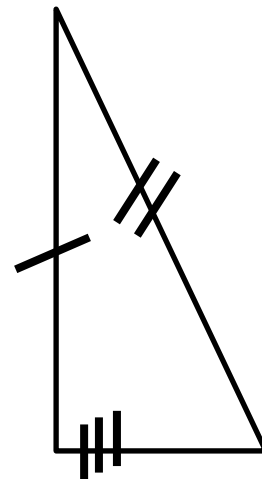
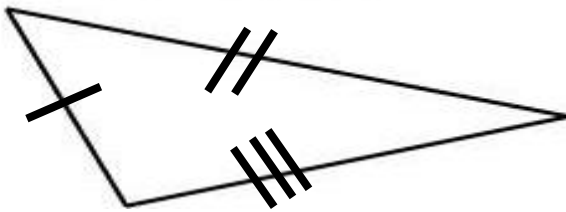
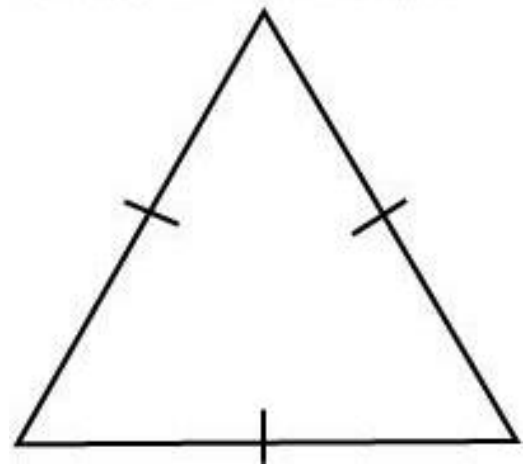
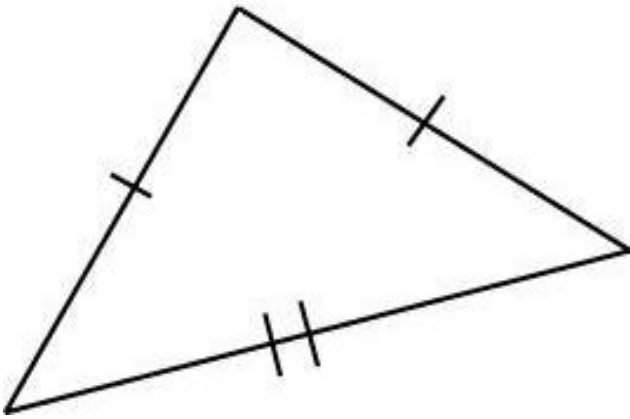
3. Write the name of the following triangles:

Isosceles triangle

Scalene triangle

Equilateral triangle

Right angle scalene triangle



(4 marks)

4a. Tick (✓) the best estimate for the mass of:

i) 6 apples



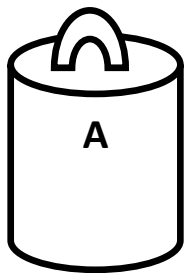
ii) a 10 year old child



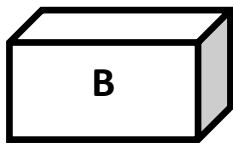
	0.06 kg
	1 kg
	7.5 kg
	65g

	35 kg
	3 kg
	850 g
	2500 g

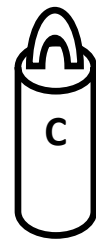
4b. Which of the following weights add up to 5kg?



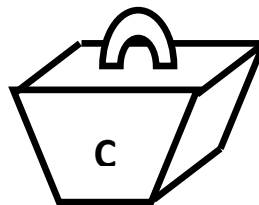
1500g



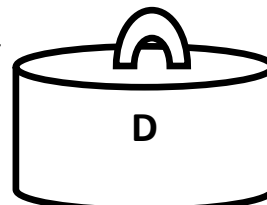
500g



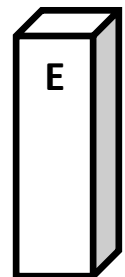
200g



1kg



2.3kg



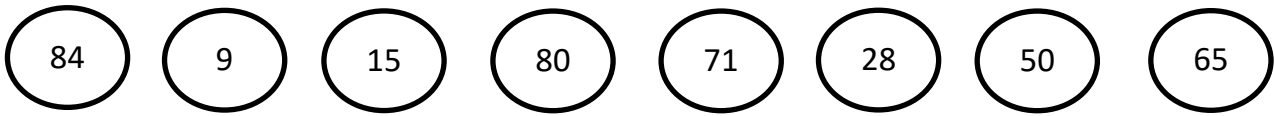
700g

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(4 marks)

5. Below is a Carroll diagram.

Put these numbers in the Carroll diagram.



	Even	Odd
multiples of 5		
Not a multiple of 5		

(4 marks)

6. Ron has these digit cards.



a. He uses two of the cards to make a 2- digit numer.

Write down **all the even 2-digit numbers** he can make. (*There is more than one.*)

b. Write the **largest 3 - digit odd number**.

c. Use **all the cards** to write a number which **rounds to 400**

when rounded to the nearest 100.

(4 marks)

7. Year 5 classes raise the following amounts of money:

Class 1	€12.30
Class 2	€9.10
Class 3	€7.10



a. How much money did the children raise altogether?

€ _____

$\frac{3}{5}$ of the **total amount** of money collected is donated to an organisation which looks after **stray dogs** called *Dogs' Trust*.

The **rest** is donated to an organisation which looks after **stray cats**, called, *Cats' Sanctuary*.

b. What **fraction of money** is given to *Cats' Sanctuary*?

□

c. How much **money** is given to *Dogs' Trust*?

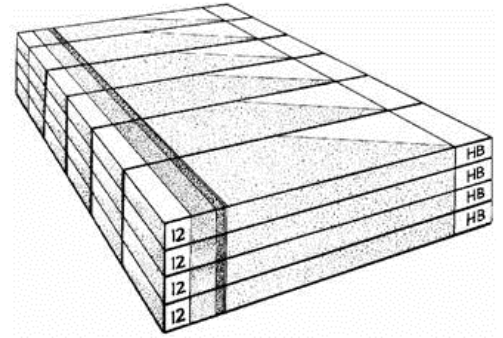
€ _____

(4 marks)

8. There are **12 pencils** in a **box**.

A school buys **24 boxes**.

a. How many **pencils** does the school have?



_____ pencils

The school also buys **316 rubbers**. These **rubbers** come in **boxes**.

There are **4 rubbers** in **each box**.

b. How many **boxes** does the school buy?



_____ boxes

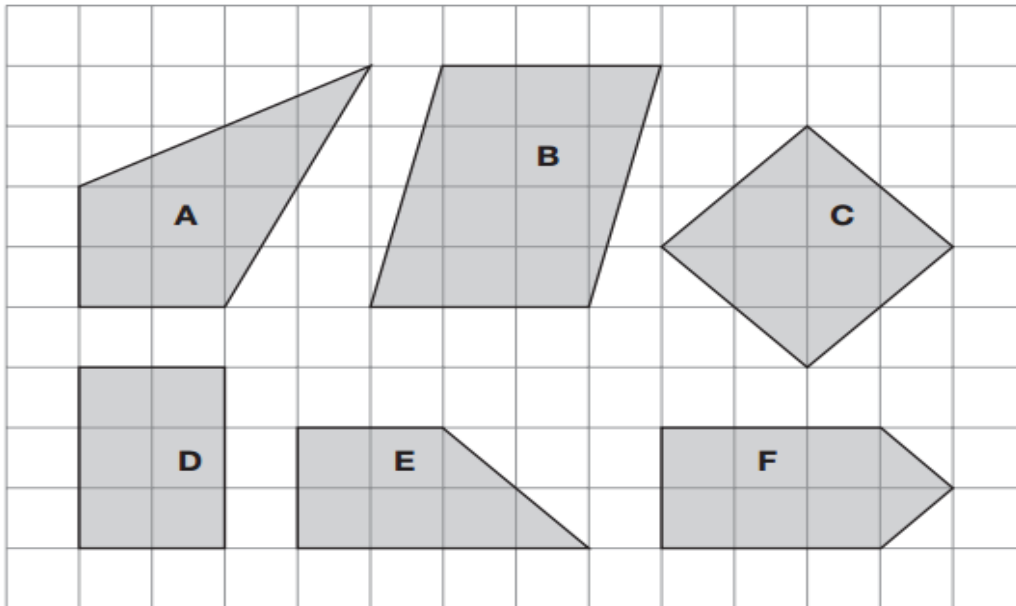
c. The **box of pencils** cost **€6** and the **box of rubbers** cost **€2**.

How much does the school **pay** for the **rubbers and pencils**?

€ _____

(6 marks)

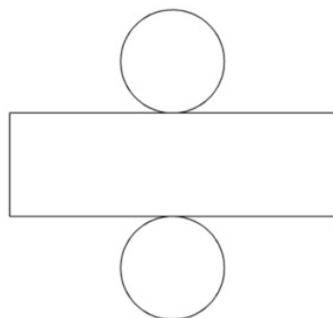
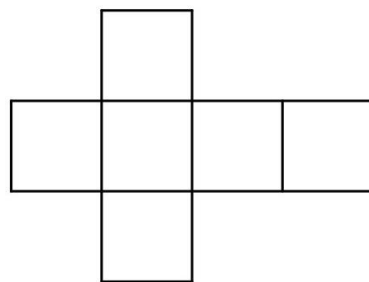
9a. Look at the following polygons:



Complete the sentences below.

- i) Shape _____ is a pentagon.
- ii) Shape _____ is not a quadrilateral.
- iii) Shape _____ has only 1 right angle.
- iv) Shape _____ is a rectangle.

b. Which solid do the net drawings below show? Tick (✓) the correct answer.



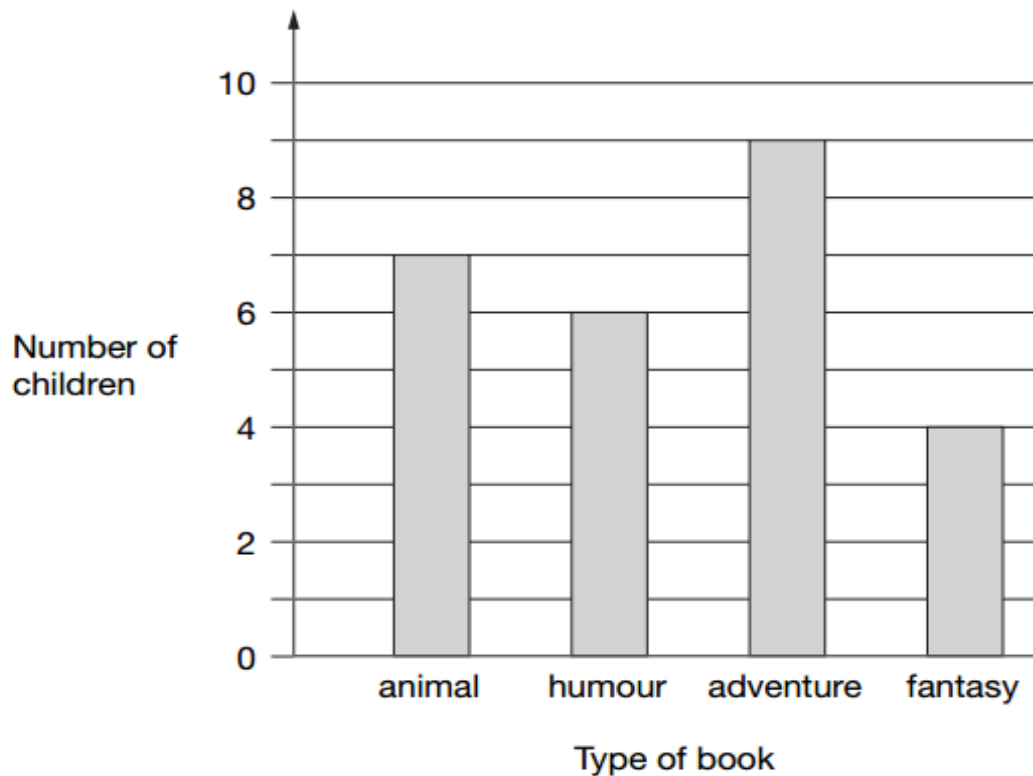
- cube
- cuboid
- cylinder
- pyramid

- cone
- cylinder
- pyramid
- sphere

(6 marks)

10. Class 5 did a survey of their favourite types of story book.

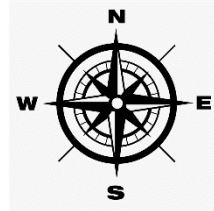
Here are their results.

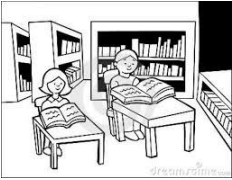




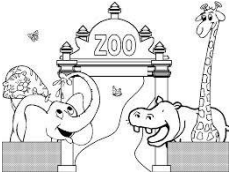



- a. How many children like **fantasy** books? _____
- b. How many **more** children chose **adventure** books than **fantasy** books? _____
- c. How many children chose **humour** or **fantasy** books? _____
- d. Which **type of book** was chosen the **most**? _____
- e. How many **children** were surveyed? _____
- f. **Five girls** chose **animal** books. How many **boys** chose **animal** books? _____

(6 marks)

11. Look at the map.



 <p style="text-align: center;">LIBRARY</p>	 <p style="text-align: center;">SCHOOL</p>	 <p style="text-align: center;">HOTEL</p>
	 <p style="text-align: center;">PAUL'S HOUSE</p>	 <p style="text-align: center;">NATIONAL POOL</p>
 <p style="text-align: center;">ZOO</p>	 <p style="text-align: center;">POLICE STATION</p>	

a) Fill in with compass directions:

i) Paul walked from his house to the zoo. She walked _____.

ii) To go from the zoo to the police station he has to go _____.

iii) The hotel is _____ of the Paul's house.

iv) Paul's house is _____ of the library.

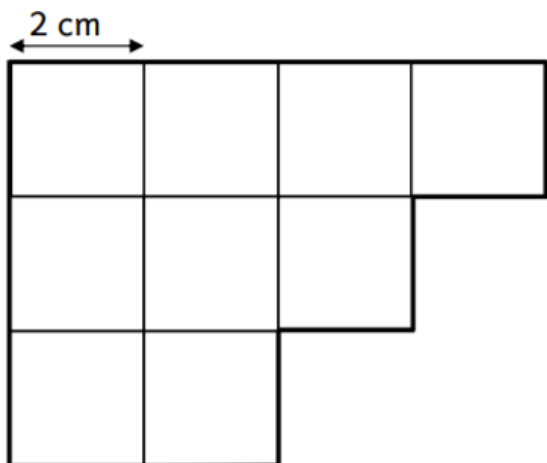
b) Complete the following:

i) The national pool is south of the _____.

ii) _____ is NW of Paul's house.

(6marks)

12a. Look carefully at this shape. All squares making up this shape are of the same size. Work out the perimeter of this shape.



_____ cm

b. Find the area of the following rectangle:




_____ cm²

c. The area of the square is 36 cm². Work out the perimeter of this square.

_____ cm

(6marks)

13. This table shows the opening times of a pet clinic.

  Pet Clinic  	
Monday	10am to 4:30pm
Tuesday	10am to 4:30pm
Wednesday	Closed all day
Thursday	10:30am to 2:30pm
Friday	1pm to 6:30pm
Saturday	10am to 5:30pm
Sunday	Closed all day

a. How many hours is the clinic open on Thursday?

___ hours

b. Liam takes his dog to the clinic on Saturday. He arrives at 3:40pm.

How long is it before the clinic closes?

___ hrs ___ min

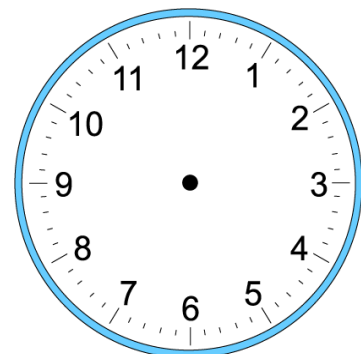
c. On which day is the clinic open for the longest time?

d. How many hours does the clinic open in a week?

_____ hours

e. At what time does the clinic close on Saturday?

Show this time on the clock.



(6marks)