



THERESA NUZZO SCHOOL MARSA
HALF YEARLY EXAMINATIONS 2018-2019
MATHEMATICS

Grade 6

Name: _____ **Register No** _____

Class _____

Mental Paper Time: 20 minutes

Mark

Written Paper Time 1hour 30 minutes

Mark

Total Mark

MATHEMATICS Mental Paper Time: 20min GRADE 6

Practice
question

1

2

m

3

4

5

6

Yes

No

7

8

9

10	
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11	cm
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12	
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13	o
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14	kg
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15	
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16	quarters
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17	€
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18	
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19	minibuses
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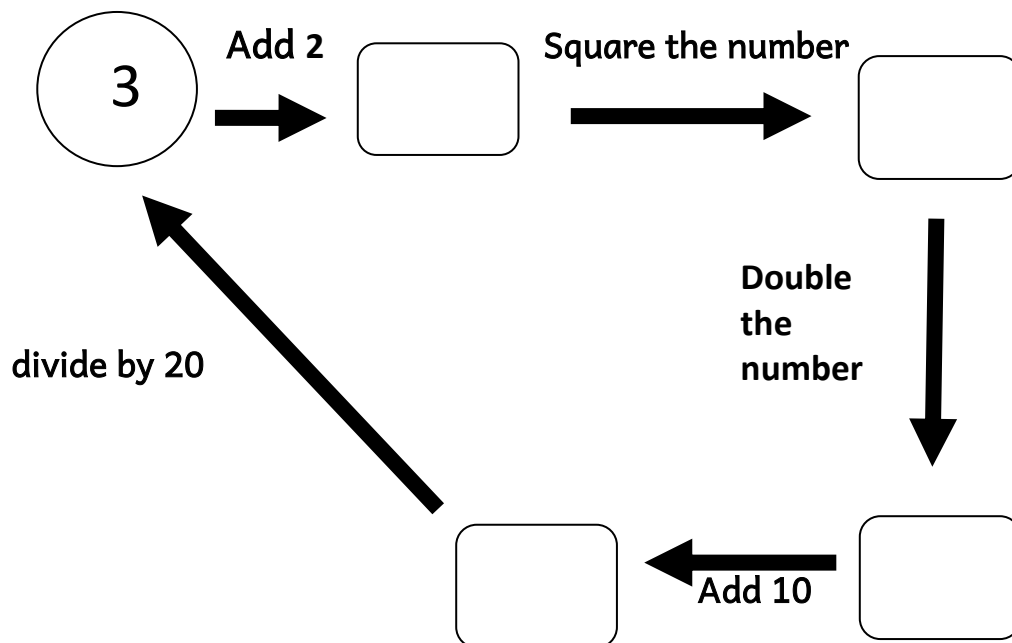
20	right angles
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1. Work Out:

a) $981 + 76$	b) $9700 - 1254 =$
c) $918 \div 9 =$	d) $37 \times 6 =$

(4 marks)

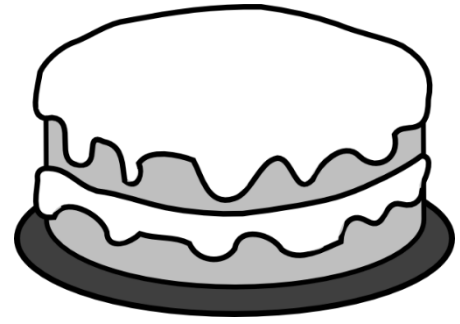
2. Start from the number in the circle and follow the arrows.



(4 marks)

3. Maria bakes **ten cakes** for the charity shop. It costs **€1.25** to make a cake.

a) How much does it **cost her** to make **all the cakes**?



€ _____

She cuts **each cake** into **8 equal portions**.

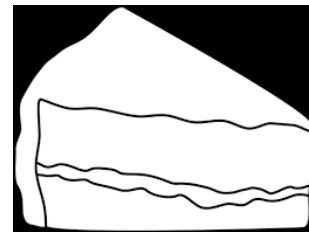
b) How **many portions** does she have **altogether**?

_____ portions

She sells **each portion** for **50c**.

She sells **all** the cakes.

c) How much do **all the portions** cost?



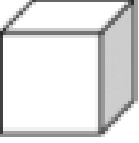
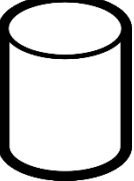


€ _____

d) How much **profit** does she make **altogether**?

€ _____

(4 marks)

4. Write the missing number.

Shape	Faces	Edges	Vertices
			8
	3		
		12	
	5		

(4 marks)

5a) Circle one of the following numbers which is equal to the number in the box:

i) $\frac{3}{4}$ $\frac{1}{2}$ $\frac{1}{4}$

0.75

ii) 1.5 0.4 0.15

$\frac{2}{5}$

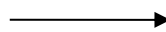
iii) 0.03 0.3 3.0

$\frac{3}{100}$

b) i) Round 317 to the nearest 10



ii) Round 821 to the nearest 100



(5 marks)

6a) Which fraction is equivalent to $\frac{2}{10}$. Tick (✓) the right answer.

$\frac{1}{4}$	$\frac{1}{5}$	$\frac{3}{12}$	$\frac{4}{6}$

b) Which fraction is different? Tick (✓) the right answer

$\frac{1}{4}$	$\frac{2}{8}$	$\frac{3}{12}$	$\frac{4}{15}$	$\frac{5}{20}$

c) Give a fraction which is larger than $\frac{3}{5}$ and smaller than $\frac{4}{5}$.

d) $\frac{3}{7}$ of a mystery number is $\frac{5}{8}$ of 96. What is the mystery number?

(5 marks)

7. Charles goes on holiday.

His **empty luggage** weighs **1250 g**.

He has **6.5 kg** of clothes, **2090 g** shoes and **1 kg 35g** toiletries.

a) What is the **total (weight)** of the luggage now?

Give your answer in kilograms.



_____ kg

b) At the airport, the **maximum weight** allowed for a luggage is **15 kg**. How much **more** can Charles **pack** in his luggage?

_____ kg

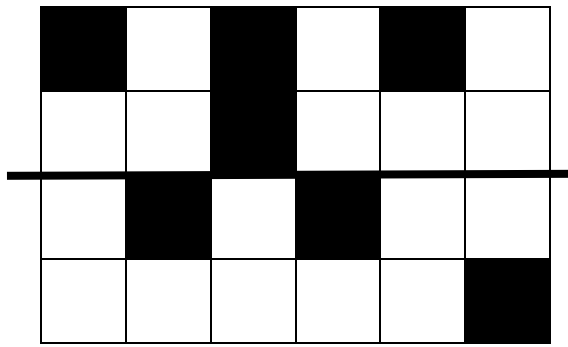
c) Charles buys a new jacket weighing **1 $\frac{1}{2}$ kg** and a **hand bag** for his wife which weighs **$\frac{3}{4}$ kg**. Can he pack these in his luggage?

Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
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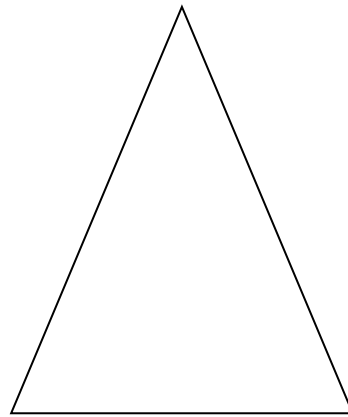
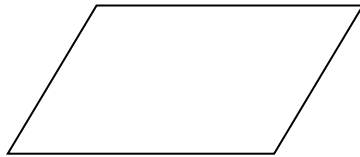
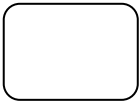
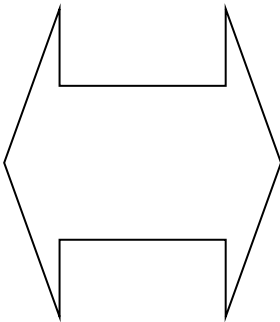
(5 marks)

8a) Look at the diagram below:

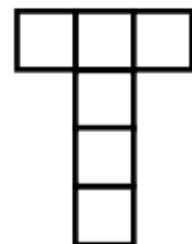
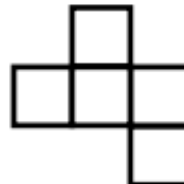
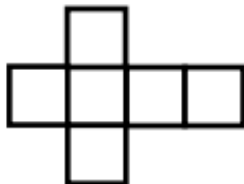
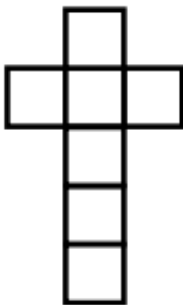
i) Shade the squares needed to complete the reflection in the mirror line.



ii) Tick (✓) under the shapes which have lines of symmetry:

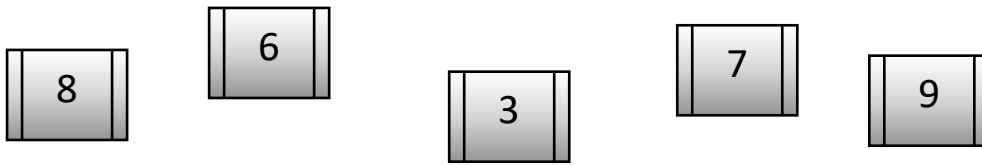


b) Below there are four nets of shapes. Tick (✓) the nets which form a cube.



(5 marks)

9a) Use the following facts to write a **5-digit number**.



- ❖ The digit in the **tens** position is double the digit in the **units** position.
- ❖ The digit in the **hundreds** position is **odd**.
- ❖ The digit in the **thousand** position is **even**.
- ❖ The **5-digit number** is larger than **80,000**.

The number is _____

b) I am a **multiple of 9**.

I am a number **between 60 and 100**.

I am a **square number**.

What number am I?

The number is _____

c) Matthew writes the **factors of 32 and 20**.

Which of these are **factors of both 20 and 32**?

Common factors: _____

(5marks)

10. A bag of 4 lemons costs €1.12

A bag of 5 oranges cost €1.75

a) How much more does one orange cost more than one lemon?



_____c

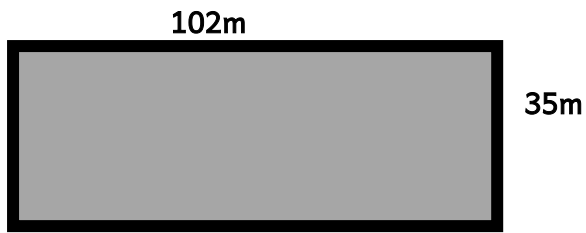
b) Mum bought a box of cherries. Her children ate $\frac{3}{5}$ of them by the end of the day. Only 36 were left in the box. How many cherries were in the box initially?



_____cherries

(5 marks)

11. The school playing field measures 35m by 102m.



The head teacher decided to put a fence around the perimeter of the playing field.

a) How long is the fencing?

The playing field needs seeding with grass seed.

b) What is the area of the playing field?

One box of Grass Seed covers 17m².

c. How many boxes will be needed to seed the playing field?



(5marks)

12. In the school library, there is a **total** of **4512 books**.

There are **1404 paperbacks**.

a. How many **hardbacks**?

_____ **hardbacks**

Half the library books are **children's books**.

b. How **many** are **children's books**?

_____ **children's books**

There are **twice** as many **English** books as **Maltese** books.

c. How many **books** in **English** are there?

_____ **English books**

(5marks)

13a. A stack of 10 tokens is 450mm tall.

i) How **thick** is **1 token**?



_____mm

Jane took **4 tokens** off the top.

ii) How **tall** is the stack **now**? Give your answer in **cm**.

_____cm

b. Packets of water bottles were bought for a school party.

Each bottle had a capacity of **2l** of water.

i) **Glasses** holding **200 ml** of water each were used at the party.

How many **glasses** of water were filled from **1 bottle**?

_____glasses

b. Each packet contained **6 water bottles**. Jack said that **65 glasses** could be filled from **each packet** of water,

i) Do you agree? Tick (✓) the correct answer

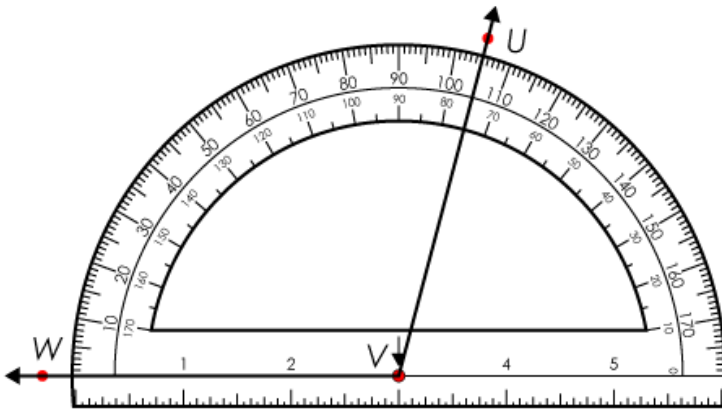
yes		No	
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iii) During the party, all children had their glasses filled **twice**. If there were **450 children** present, how many **litres** of water were used at the party?

_____l

(6marks)

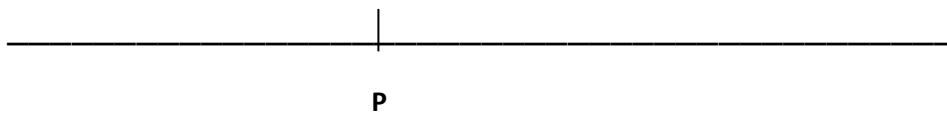
14a. Measure the angle.



_____°

b. i Draw an angle of 120° at point P

ii. Underline the correct answer
Angle P is called an
(acute, obtuse) angle

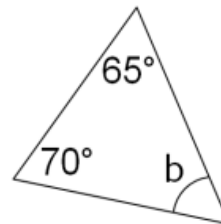


c. Find the missing angle:



$a = \underline{\quad}^\circ$

d. i) Find angle b in the following triangle:

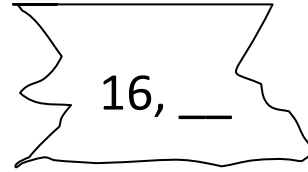
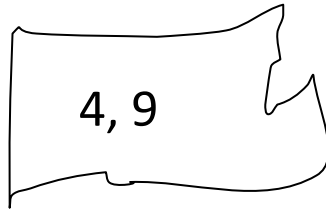
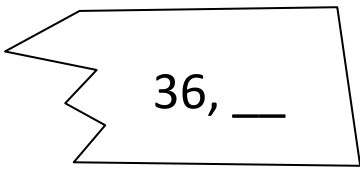


$b = \underline{\quad}^\circ$

ii) The above triangle is (isosceles, scalene, equilateral)

(6 marks)

15a. Jake finds **three pieces** of paper with a **number pattern** written on them.



- i) These **numbers** are called _____.
- ii) Jake tries to arrange these pieces of paper to get a **sequence of numbers** with the **smallest number first**. Fill in the **missing numbers**.

_____	_____	_____	_____	_____	_____
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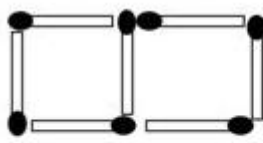
b. The following is a **sequence of triangular numbers**. Write the next two **triangular numbers**.

1	3	6	10		
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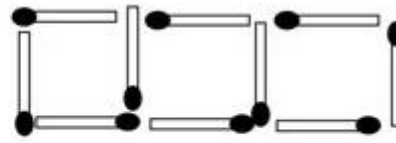
c. Here are some patterns made from matchsticks



Pattern number 1



Pattern number 2



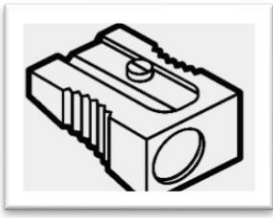
Pattern number 3

i) How many **matchsticks** will there be in **pattern 4**?

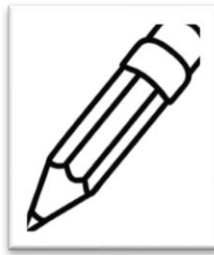
ii) How many **matchsticks** will there be in **pattern 21**?

(6 marks)

16. The shop is selling stationery.



Sharpener 43c



Pencil 38c



ruler 60c

a. Mary buys 5 sharpeners and 6 pencils and 3 rulers.

What is the change she gets from €10?

€ _____

b. A book costs €5 more than a file.

Jack purchased 3 books and 2 files and paid a total cost of €30.



What is the cost of each item?

File = € _____

Book = € _____

_____ THE END _____ (6 marks)