



THERESA NUZZO SCHOOL MARSA
HALF YEARLY EXAMINATIONS 2019-2020

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

lines of symmetry

2

m

3

0

4

5

Yes

No

6

7

8

9

10

11	always odd	<input type="checkbox"/>
	always even	<input type="checkbox"/>
	sometimes odd and sometimes even	<input type="checkbox"/>

12	<input type="text"/>
----	----------------------

13	<input type="text" value="0"/>
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14	<input type="text"/>
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15	<input type="text" value="pencils"/>
----	--------------------------------------

16	<input type="text" value="0"/>
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17	<input type="text" value="€"/>
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18	<input type="text"/>
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19	<input type="text" value="ml"/>
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20	<input type="text"/>
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1. Work Out:

a) $974 + 36$	b) $9000 - 1359 =$
c) $612 \div 6 =$	d) $34 \times 5 =$

(4 marks)

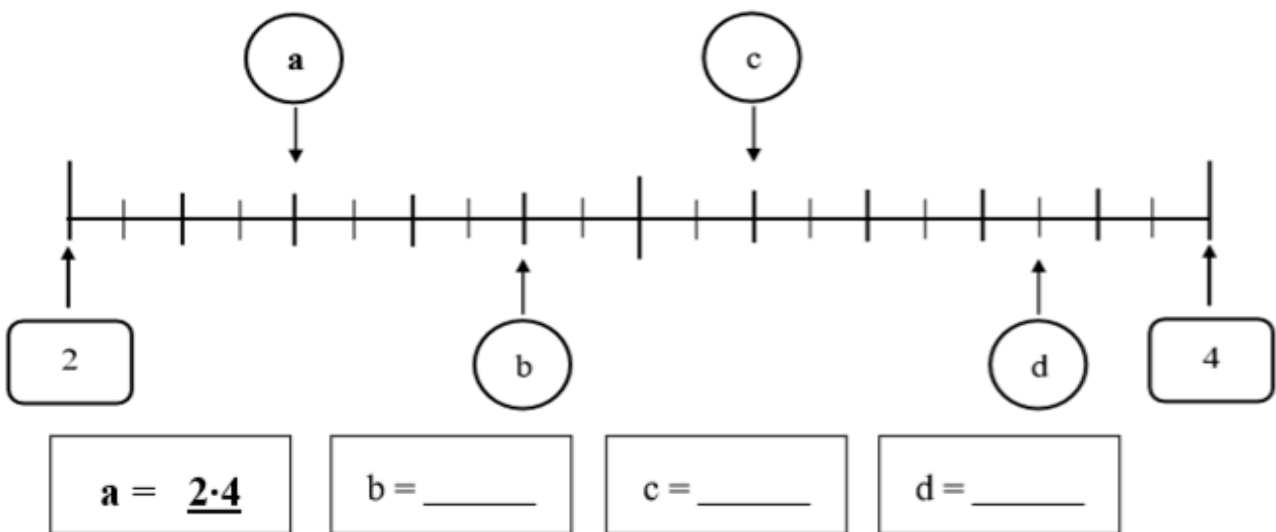
2a) Put in ascending order:

3.12 31.2 0.312

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b) Write down the number shown by each arrow on the number line below.

(Hint: The first one is done for you).



(4 marks)

3. Fill in the blank spaces with one of the name cards below.

(Note: One of the cards is extra)

mixed fractions

decimal numbers

even numbers

multiples of 5

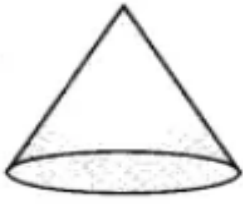
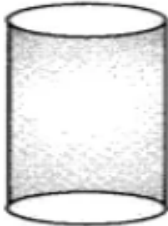
~~**proper fractions**~~

square numbers

					NAME CARDS
a.	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{5}{9}$	$\frac{7}{10}$	<i>proper fractions</i>
b.	81	100	16	49	
c.	$4\frac{3}{5}$	$9\frac{3}{8}$	$6\frac{5}{7}$	$8\frac{7}{8}$	
d.	675	765	670	200	
e.	26814	8976	179,000	56	

(4 marks)

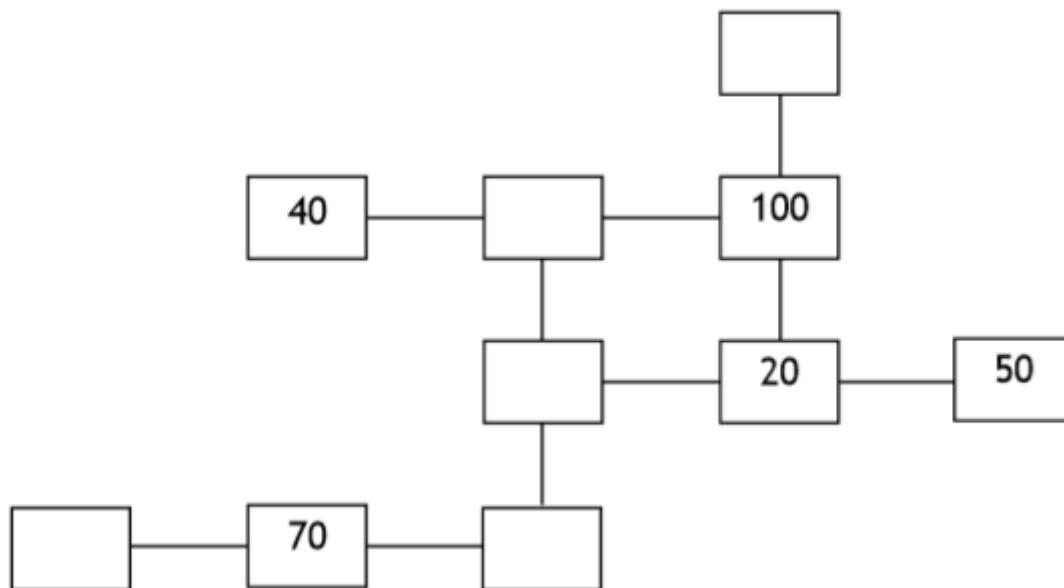
4. Put a tick (✓) near the **correct** statements.

 Cone	 Cylinder																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 2px;">The cone is a solid shape.</td> <td style="width: 30px;"></td> </tr> <tr> <td style="padding: 2px;">It has 4 faces.</td> <td></td> </tr> <tr> <td style="padding: 2px;">The cone has 1 edge.</td> <td></td> </tr> <tr> <td style="padding: 2px;">This shape has no vertices.</td> <td></td> </tr> </tbody> </table>	The cone is a solid shape.		It has 4 faces.		The cone has 1 edge.		This shape has no vertices.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 2px;">The cylinder has 3 faces.</td> <td style="width: 30px;"></td> </tr> <tr> <td style="padding: 2px;">It is a solid shape.</td> <td></td> </tr> <tr> <td style="padding: 2px;">The cylinder has 3 edges.</td> <td></td> </tr> <tr> <td style="padding: 2px;">The cylinder has no vertices.</td> <td></td> </tr> </tbody> </table>	The cylinder has 3 faces.		It is a solid shape.		The cylinder has 3 edges.		The cylinder has no vertices.	
The cone is a solid shape.																	
It has 4 faces.																	
The cone has 1 edge.																	
This shape has no vertices.																	
The cylinder has 3 faces.																	
It is a solid shape.																	
The cylinder has 3 edges.																	
The cylinder has no vertices.																	

(4 marks)

5. The **three** numbers in **each** row or column add up to 200.

Fill in the missing numbers.



(5 marks)

6. Anna makes jewellery to sell at a school fair.

Each **bracelet** has **53 beads**.

She makes **68 bracelets**.

Each **necklace** has **105 beads**.

She makes **34 necklaces**.

How many **beads** does Anna use **altogether**?



_____ beads.

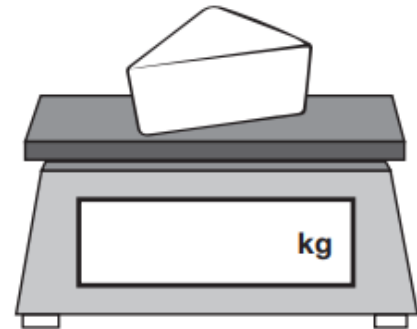
(5 marks)

7. Maria is shopping.



I would like to buy **three quarters** of a kilogram of cheese.

a) Write **three quarters** on the scales as a **decimal**.



b) The cheese costs **€8.60 per kg**. Maria pays with a **€10 note**. How much **change** should Maria get?

€ _____

c) Maria needs to buy $2\frac{1}{4}$ kg onions which cost **€1.60 per kg**. How much **more money** does she need?



€ _____

(5 marks)

8. a) Write the **missing digits** in the **two numbers** below to make the **addition correct**.

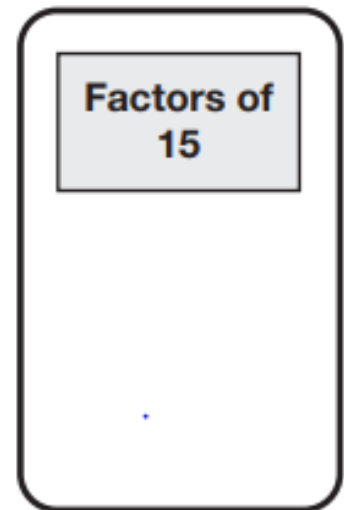
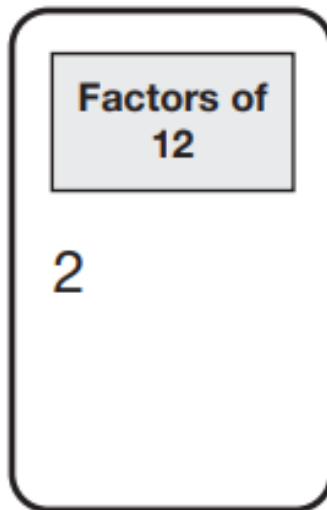
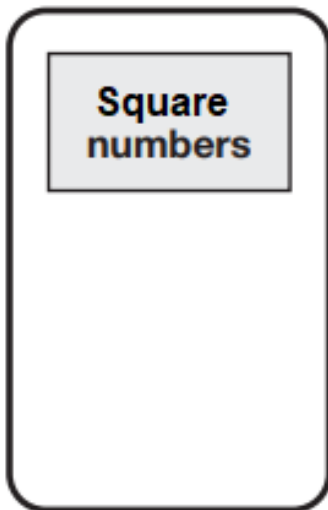
$$\boxed{} \boxed{2} \boxed{} + \boxed{} \boxed{2} = 200$$

b) Here are **five numbers**.



Write **each number** on the **correct cards**.

The number 2 has been written on the correct cards for you.



c) Which **digit** is in the **thousand** place?

576, 219



(5 marks)

9. a) Look at the opposite clock

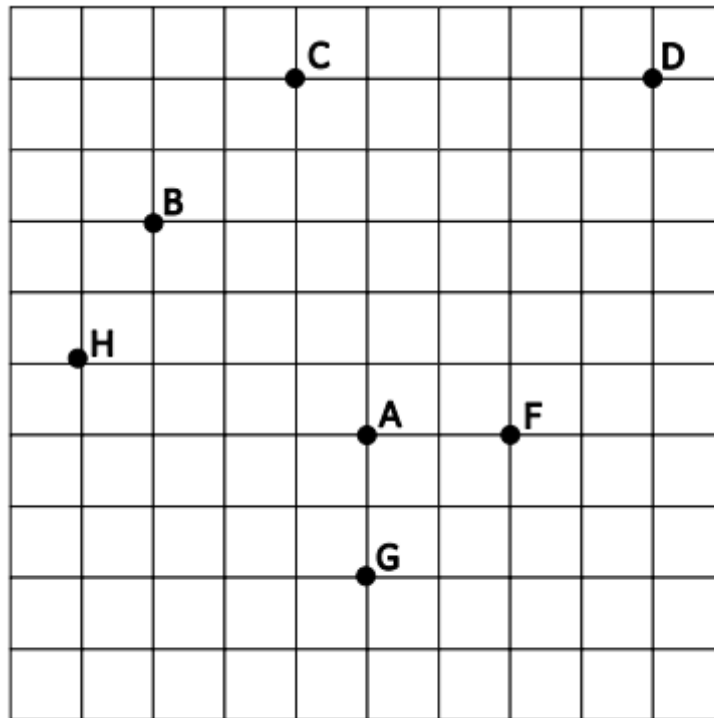
i) What is the **angle turned** by the minute hand in **25 minutes**? Give your answer in **degrees**.



_____0

ii) The **angle turned** by the minute hand in _____ minutes is 3 right angles.

b) Look carefully at the diagram below.



Fill in the blanks:

i) Point C is _____ of Point D

ii) Point A is SE of Point _____

iii) Paul is at Point A and is looking North. He turns $\frac{1}{2}$ right angle anticlockwise.

Which Point is he facing? _____.

(5 marks)

10. The table below shows the heights of John, Mary, Matthew and Mariah.



John	Mary	Matthew	Mariah
1.49m	1 $\frac{1}{2}$ m	1.47m	1.46m

a) Who is the **shortest** child?

b) What is the **difference** in height between the **shortest** and the **tallest** child? Give answer in **cm**.

 cm

c) Work out the **average height** of the children.

 m

d) **Another** child, **Jamie** joined the group. Jamie's height is **1.53m**. What is the **new average** of the group?

 m

(5marks)

11. a) Circle the improper fraction which is equivalent to $6\frac{7}{8}$

$\frac{67}{8}$	$\frac{48}{8}$	$\frac{62}{8}$	$\frac{55}{8}$	$\frac{76}{8}$
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b) Write these fractions in order, starting with the smallest.

$$\frac{6}{5} \quad \frac{3}{5} \quad \frac{3}{4}$$

smallest

c) On Saturday Lara read $\frac{2}{5}$ of her book.

On Sunday she read the other 90 pages to finish the book.

How many pages are there in Lara's book?

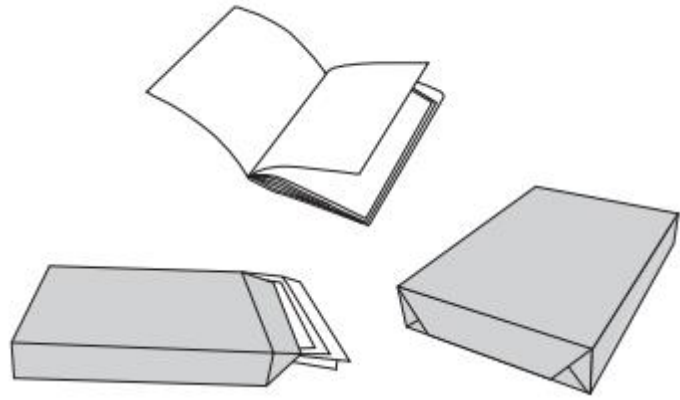


_____ pages.

(5 marks)

12. Adam bought 2 packets of papers costing €5.30 each.

a) What is the cost of the 2 packs?



€ _____

b) He is making booklets.

Each booklet must have 34 sheets of paper.

There are 500 sheets of paper in each packet.

How many complete booklets can he make from 2 packets of sheets?

_____booklets.

c) If Adam sells all the booklets at a school fair at 50c each, what will the profit be?

€ _____

(5 marks)

13. a) Look at the number sequences below.

Fill in the **missing numbers** in these sequences:

i) $3\frac{5}{8}$, $3\frac{7}{8}$, , $4\frac{3}{8}$,

ii) 1, 3, 6, , 15,

b) In a **magic square**, each row, column and diagonal add up to the same total. In this case the total is 50. Fill in the missing numbers in this magic square.

The sum is 50.

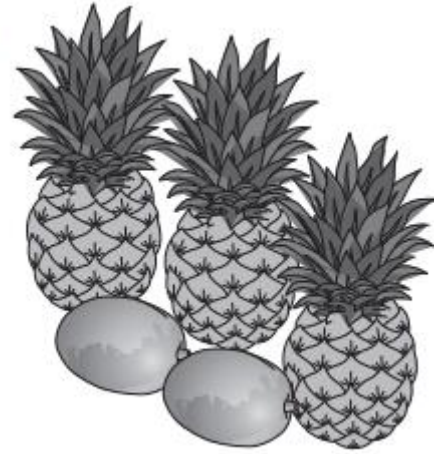
	13		20
18			6
	10	14	
	16	12	

(6 marks)

14. a) **3 pineapples** cost the same as **2 mangoes**.

One mango costs €1.35.

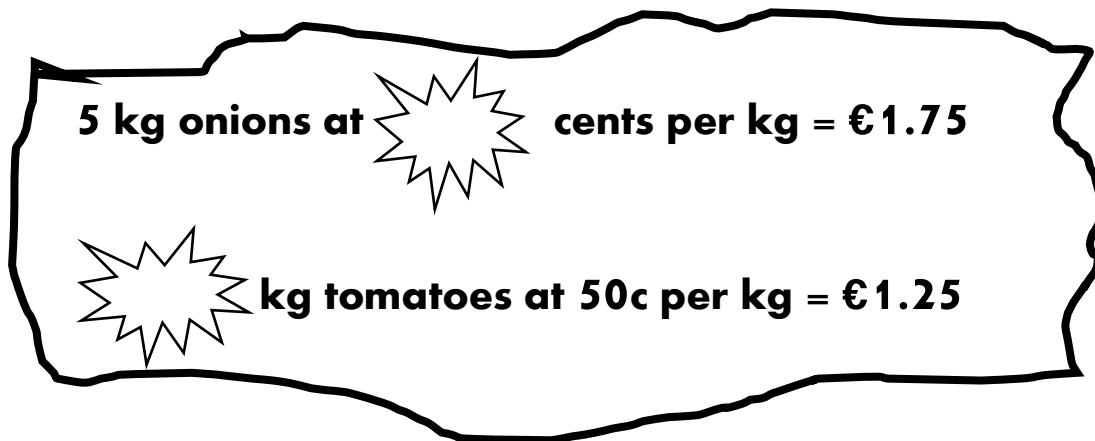
How much does **one** pineapple cost?



€ _____

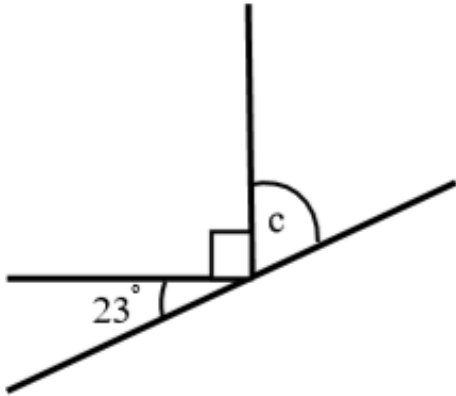
b) Martha found this stained piece of paper at the greengrocer's.

Find out the hidden numbers.



(6 marks)

15. a) Work out the size of Angle c on the straight line.

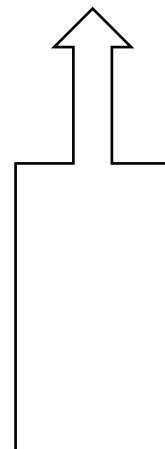
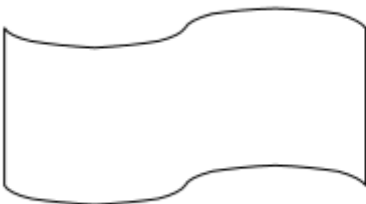


Angle c = _____°

b) Underline the correct answer.

- i) Angle c is (an acute; an obtuse) angle.
- ii) A triangle with two equal sides is called (an isosceles; a scalene; an equilateral) triangle.

c) Draw all the possible lines of symmetry (if there are any), of the following shapes.



(6 marks)

16. a) The shapes stand for three different numbers.

$$\text{Circle} + \text{Circle} + \text{Circle} = 60$$





$$\text{Square} + \text{Square} + \text{Circle} = 40$$

$$\text{Triangle} + \text{Triangle} + \text{Square} = 20$$

i) Find the value of each shape:

 =	 =	 =
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ii) Solve the following:

	+		+		+		=	<div style="border: 1px solid black; width: 60px; height: 40px; display: inline-block;"></div>
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b) Karl has a few cards **between 20 and 30**.

When he groups his cards in lots of 3, 2 are left over.

How many cards could he have?

Give the **three possible answers**.



			cards
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(6 marks)