



# Erasmus+

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## Grade 3 Mathematics Test

Name: .....


School: .....


Class: ..... Date of testing: .....

Date of birth: ..... Girl  Boy

**GUIDELINES:** Below you can find 11 questions. You have 40 minutes to do as many as you can. If you cannot do a question, move on. If needed, you can show how you get your answer on the page. Please don't rub out anything.

1) Write the value of digit **TWO** (2) in each number below.

a) 627 ..... 

b) 295 ..... 

2) *How much money is here?*



3) *Find the answers.*

$$\begin{array}{r} 423 \\ + 335 \\ \hline \end{array}$$

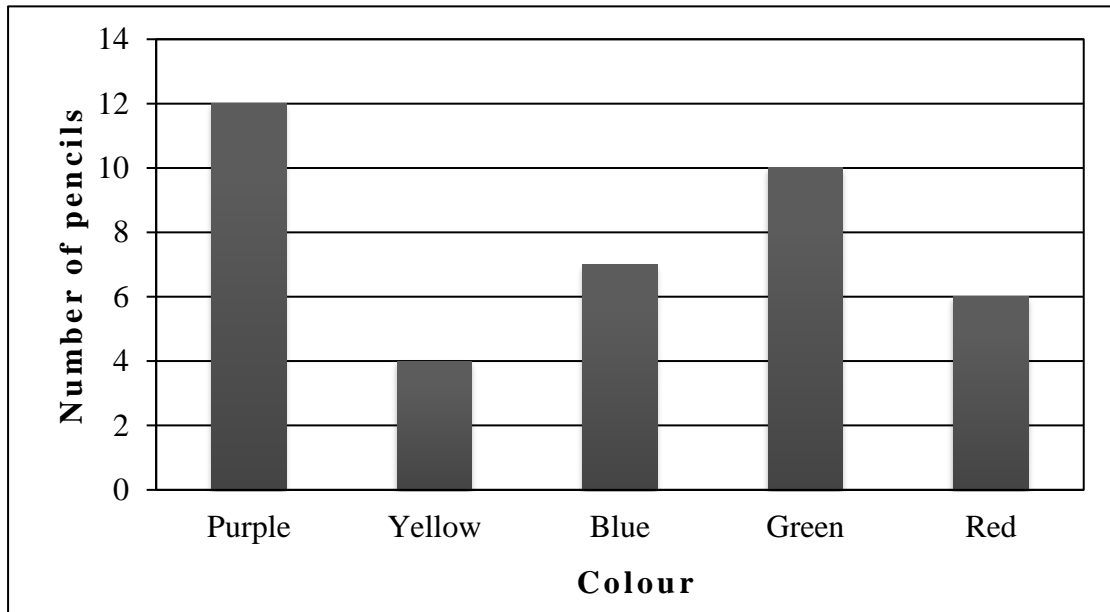
$$\begin{array}{r} 287 \\ + 335 \\ \hline \end{array}$$

$$\begin{array}{r} 823 \\ - 467 \\ \hline \end{array}$$

$$72 \div 3 =$$

$$52 \times 3 =$$

4) Look at the graph that shows different coloured pencils in a box.



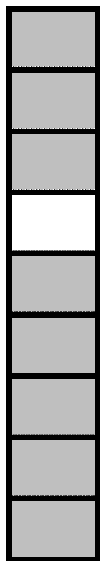
a) How many **green** pencils are there?



b) How many **more green** than **blue** pencils are there?



5) Circle only the shapes where  $\frac{1}{8}$  is white.



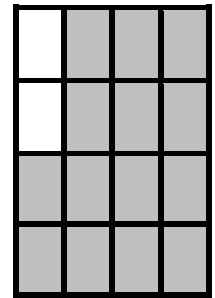
(a)



(b)



(c)



(d)

6) Write the numbers in order from the smallest to the biggest.

a.            183                    703                    1000                    654                    645







b.             $\frac{1}{3}$                      $\frac{1}{5}$                      $\frac{1}{8}$                      $\frac{1}{4}$






7) *Complete the following sentences.*

A flat shape (2D shape) has four sides and four right angles. Each side is 5 cm.

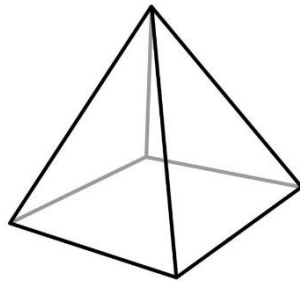
The shape is called .....



Its perimeter is .....



8) *This is a pyramid.*



a) How many **vertices** does it have?



b) How many **faces** does it have?




9) *Complete the table.*

2 m = ..... cm
€ 3 = ..... cents
500 g = ..... kg
5 hours = ..... minutes



**10) Solve the problems below.**

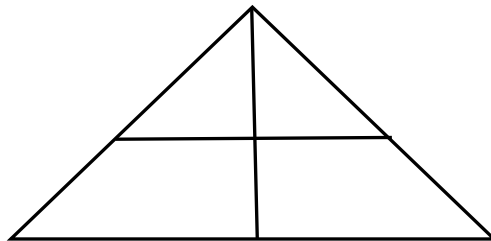
- a) There are 157 boys and 146 girls in a school. How many children are there altogether?

Answer:  

- b) Mary had €10. She bought 3 notebooks which cost 50 cents each. How much change did she get?

Answer:  

**11) Look at the shape below. How many triangles can you see?**



Answer:  

**Thank you very much!**



# Erasmus+

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## Grade 4 Mathematics Test

Name: .....

School: .....

Class: ..... Date of testing: .....

Date of birth: ..... Girl  Boy

**GUIDELINES:** Below you can find 13 questions. You have 60 minutes to do as many as you can. If you cannot do a question, move on. If needed, you can show how you get your answer on the page. Please don't rub out anything.

### 1) Write the number.




a) One thousand and thirty seven

b) Three thousand and six hundred three

2) Write the value of the digit TWO (2) in each number below.

- a) 627 ..... 
- b) 295 ..... 
- c) 2534 ..... 

3) Find the answers.

$$\begin{array}{r} 7\ 859 \\ +\ 438 \\ \hline \end{array}$$

$$\begin{array}{r} 8.23 \\ -\ 4.67 \\ \hline \end{array}$$

$$\begin{array}{r} 7\ 272 \\ -\ 5\ 328 \\ \hline \end{array}$$


$$\begin{array}{r|l} 210 & 7 \\ \hline & \end{array}$$

$$52 \times 3 =$$

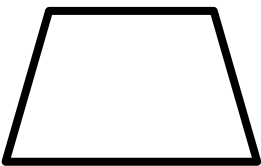
$$\begin{array}{r|l} 67 & 2 \\ \hline & \end{array}$$

4) Complete the missing numbers in the boxes.

a)  $397 - \square = 163$

b)  $14 \times 5 = (10 \times 5) + (\square \times 5)$  

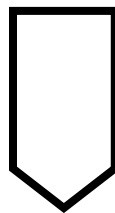
5) Circle only the PARALLELOGRAMS.



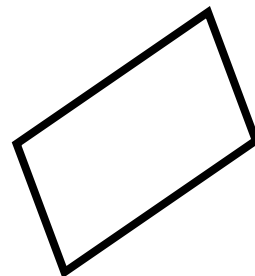
(a)



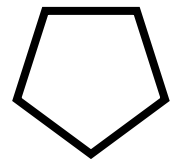
(b)



(c)



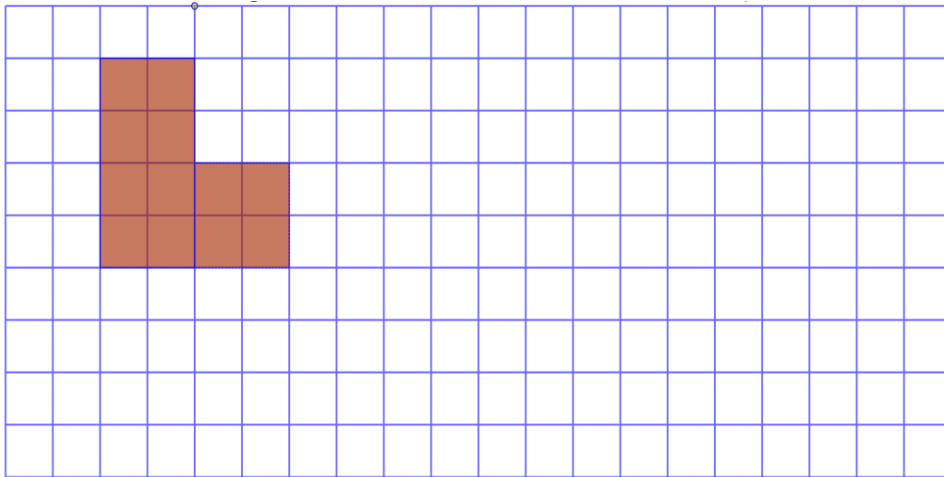
(d)



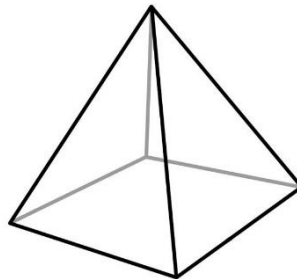
(e)





6) Draw a rectangle with the same area as the shape below.



7) This is a pyramid.



a) How many **vertices** does it have?  

b) How many **faces** does it have?  

8) Complete the following sentences.

a. A flat shape (2D shape) has four sides and four right angles. Each side is 5 cm.

The shape is called .....

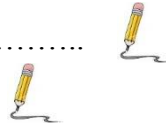
Its perimeter is .....



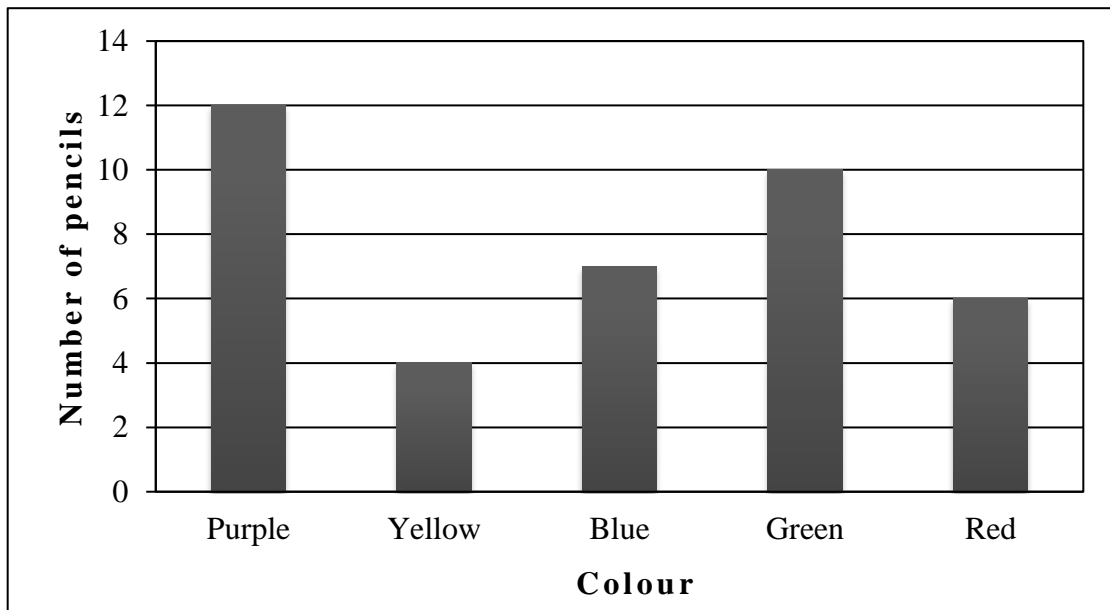
b. A flat shape (2D shape) has four right angles. The opposite sides are parallel to each other. One of its sides is equal to 12 cm and another side is 15 cm.

The shape is called .....

Its perimeter is .....



9) Look at the graph that shows how many pencils are in a box.



c) How many **green** pencils are there?



d) How many **more green** than **blue** pencils are there?



10) Write the numbers in order from the smallest to the biggest.

a)      183              703              1000              654              645



b)               $\frac{1}{3}$                $\frac{1}{5}$                $\frac{1}{8}$                $\frac{1}{4}$



c)              2.15              2.7              20.7              2.09

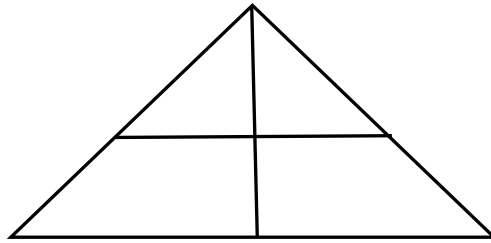


11) Complete the table.

2 m = ..... cm
€3 = ..... cents
300 m = ..... km
5 hours = ..... minutes
1 750 g = ..... kg




12) Look at the shape below. How many triangles can you see?




Answer:  

13) Solve the problems below.

- a) Mary had €10. She bought 3 notebooks which cost 50 cents each. How much change did she get?

Answer:  

- b) John saved €150 in September, €80 in October and €133 in November. During Christmas he spent €100 on new clothes and €35 on games. How much change does John have left?

Answer:  

Thank you very much!



# Erasmus+

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## Grade 5 Mathematics Test

Name: .....

School: .....

Class: ..... Date of testing: .....

Date of birth: ..... Girl  Boy

**GUIDELINES:** Below you can find 13 exercises and 7 questions. You have 80 minutes to do as many as you can and answer the 7 questions. If you cannot do a question, move on. If needed, you can show how you get your answer on the page. Please don't rub out anything.

1) Round the following numbers to the nearest TEN.

a) 134

b) 1 248

c) 1 897



2) Round the following numbers to the nearest HUNDRED.

a) 123

b) 1 456

c) 989



3) Find the answers.

$$\begin{array}{r} 7\ 859 \\ + 438 \\ \hline \end{array}$$

$$\begin{array}{r} 32\ 729 \\ + 13\ 462 \\ \hline \end{array}$$

$$\begin{array}{r} 7\ 272 \\ - 5\ 328 \\ \hline \end{array}$$

$$\begin{array}{r} 678 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 210 \overline{) 7} \\ \hline \end{array}$$

$$\begin{array}{r} 832 \overline{) 9} \\ \hline \end{array}$$

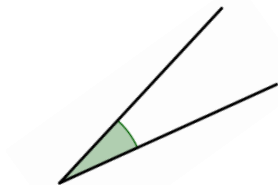
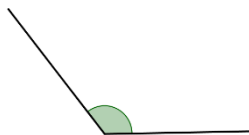
4) Complete the missing numbers in the boxes.

$$14 \times 5 = (10 \times 5) + (\square \times 5)$$

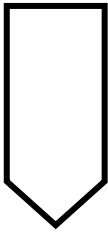
$$2 \times \square = 4 \times 7 \times 2$$



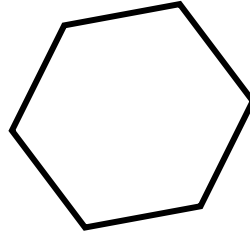
5) Are the angles below obtuse, right, or acute? (Write your answer in each box)



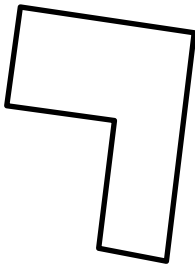
6) Circle only the HEXAGONS.



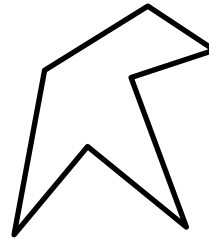
(a)



(b)

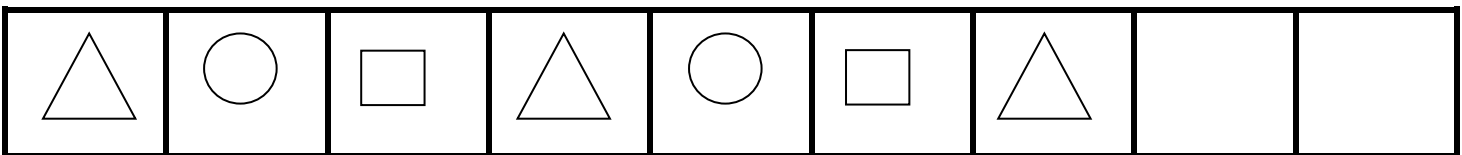


(c)



(d)

7) Draw the next two shapes in the pattern below.



8) Find the next two numbers in the pattern below.

22, 29, 36,



9) Find:

a.  $\frac{1}{3}$  of 36



b.  $\frac{3}{4}$  of 60

10) Find:

◆  $\frac{1}{4} + \frac{2}{4} =$

◆  $\frac{3}{8} + \frac{1}{4} =$

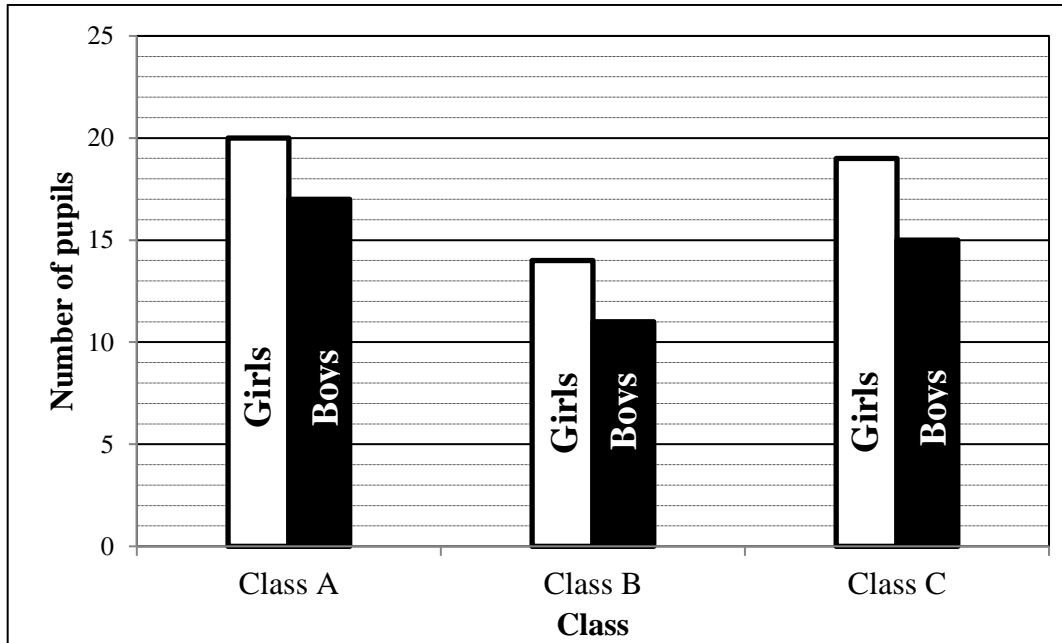
◆  $3\frac{2}{5} - 2\frac{1}{5} =$

◆  $3 \times \frac{5}{6} =$



11) Look at the graph that shows the number of boys and girls in Year 4. Answer the questions below.

Boys and girls in Year 4 per class



- a) How many **boys** are in class B?
- b) How many **more girls** than boys are in class A?
- c) How many **children** are in class C?
- d) How many **boys** are in Year 4?



12) Complete the table.

$2 \text{ m} = \dots\dots\dots \text{ cm}$
$65 \text{ l} = \dots\dots\dots \text{ ml}$
$300 \text{ m} = \dots\dots\dots \text{ km}$
$5.3 \text{ m} = \dots\dots\dots \text{ mm}$
$1\ 750 \text{ g} = \dots\dots\dots \text{ kg}$

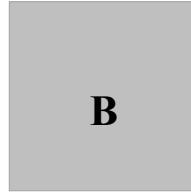
13) Solve the problems below.

- a) John saved €150 in September, €80 in October and €133 in November. During Christmas he spent €100 on new clothes and €35 on games. How much money does John have left?

Answer:



- b) Rectangle A and square B have equal perimeters. The length of the rectangle is 8 cm and its width is 2 cm.



The side of square B is

The area of square B is



**Thank you very much!**



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## Grade 6 Mathematics Test

Name: .....

School: .....

Class: ..... Date of testing: .....

Date of birth: ..... Girl  Boy

**GUIDELINES:** Below you can find 10 questions. You have 60 minutes to do as many as you can. If you cannot do a question, move on. If needed, you can show how you get your answer on the page. Please don't rub out anything.

1) Round the following numbers to the nearest HUNDRED.

a) 1 456

b) 322 348

c) 989



2) Find the answers.

$$\begin{array}{r} 32\,729 \\ + 13\,462 \\ \hline \end{array}$$

$$\begin{array}{r} 80\,754 \\ - 75\,381 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 832 \overline{) 9} \\ \hline \end{array}$$

$$\begin{array}{r} 8\,486 \overline{) 42} \\ \hline \end{array}$$

$$10 + 3 \times 5 =$$

$$12 \times 2 + 4 \times 6 =$$

3) Find the next two numbers in each pattern below.

22	29	36		
----	----	----	--	--

a)

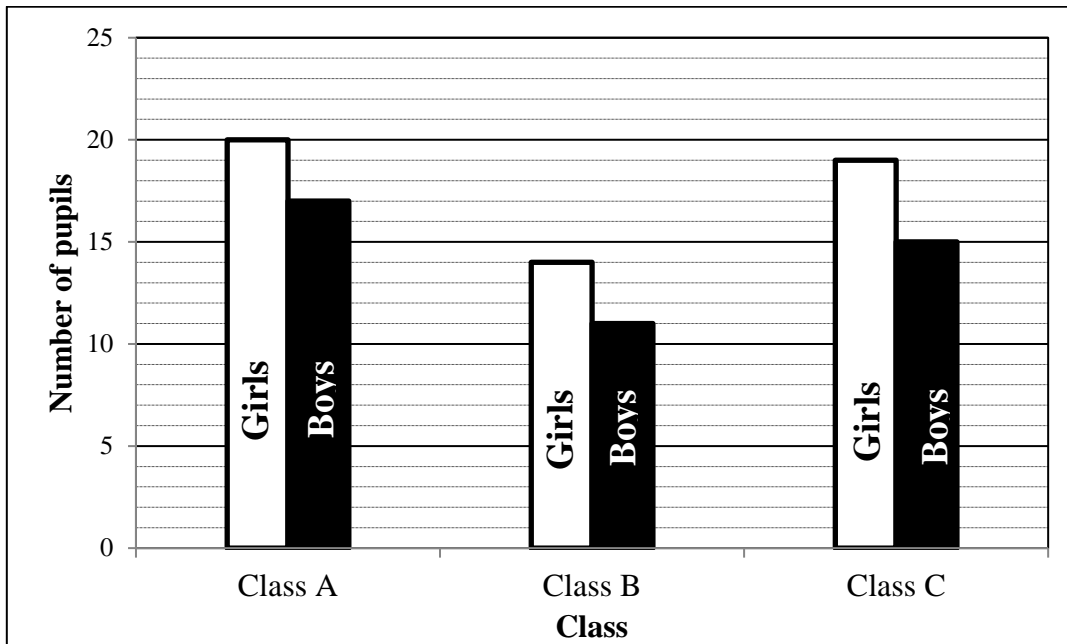
1	4	9	16		
---	---	---	----	--	--

b)



4) Look at the graph that shows the number of boys and girls in each class of Year 4.  
Answer the questions below.

Boys and girls in Year 4 per class



e) How many **boys** are in class B?

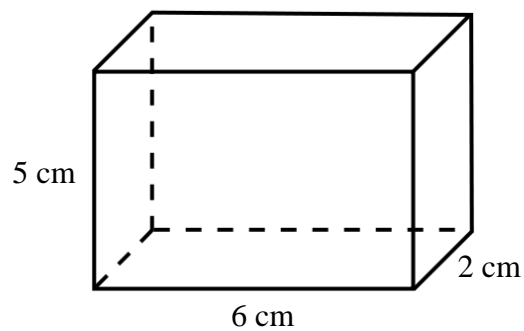
f) How many **more girls** than boys are in class A?

g) How many **children** are in class C?

h) How many **boys** are in Year 4?



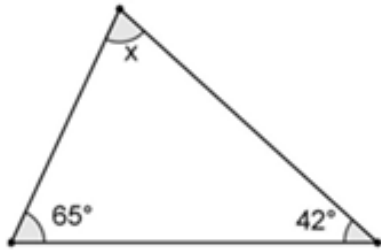
5) Complete the statement below.



The volume of the cuboid is



6) Find the value of  $x$  in the triangle below.



$x =$   

7) Complete the table.

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
	0.6	
$\frac{1}{20}$		
$\frac{22}{10}$		

8) Find the answers.

a)  $3\frac{2}{5} - 2\frac{1}{2} =$

b)  $\frac{3}{4} \times \frac{2}{7} =$

c)  $5\frac{1}{3} - 1\frac{1}{6} =$

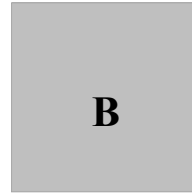
9) Complete the table.

65 ℓ = ..... ml
300 m = ..... km
5.3 m = ..... mm
1 750 g = ..... kg



10) Solve the problems below.

- a) Rectangle A and square B have equal perimeters. The length of the rectangle is 8 cm and its width is 2 cm.




The side of square B is

The area of square B is



- b) According to the timetable, bus A and bus B leave the bus station at 7:00 a.m. Bus A leaves the bus station every 20 minutes and bus B leaves every 15 minutes. When will they both next leave the bus station at the same time?

Answer:  

- c) A shopkeeper paid €114 for 152 kg of tomatoes and put them in boxes. Each box can hold 8 kg. She sold each box for €9. How much profit did she make?

Answer:  

Thank you very much!

Test Specification Table – 3<sup>rd</sup> Grade

Common Items	Understanding concepts and recalling facts	Performing computations – Algorithms	Solving Problems
<p><b>Whole Numbers - place value</b></p> <ul style="list-style-type: none"> <li>Compare and order numbers up to 1000.</li> <li>Recognize the <u>place value</u> of each <u>digit</u> in a <u>three-digit numbers</u>.</li> </ul>	<p>1a, 1b 2 3b, 3c, 3d, 3e 6a</p>	<p>2 6a</p>	
<p><b>Arithmetic Operations</b> <u>Addition and subtraction:</u></p> <ul style="list-style-type: none"> <li>Up to three digits</li> </ul> <p><u>Multiplication and division:</u></p> <ul style="list-style-type: none"> <li>Two-digit numbers times one-digit numbers (short multiplication and division)</li> </ul>		<p>3a, 3b, 3c, 3d, 3e</p>	<p>10a, 10b</p>
<p><b>Fractions</b></p> <ul style="list-style-type: none"> <li><u>Recognize, compare and order</u> fractions.</li> <li><u>Find and write</u> fractions of a discrete set of objects.</li> </ul>	<p>5a, 5b, 5c 6b</p>	<p>5d 6b</p>	

<p><b>Measurement</b></p> <ul style="list-style-type: none"> <li>• Measure the <u>perimeter</u> of simple 2-D shapes</li> <li>• Measure, compare, add and subtract: <u>lengths</u> (m/cm) and <u>mass</u> (kg/g)</li> <li>• <u>Money</u></li> <li>• <u>Time</u></li> </ul> <p><b>Data - Statistics</b> Interpret:</p> <ul style="list-style-type: none"> <li>• Bar chart</li> </ul>	<p>2 9a, 9b, 9c, 9d</p>	<p>9a, 9b, 9c, 9d</p>	<p>10b</p>
	<p>4a</p>	<p>4b</p>	
<p><b>Geometry – Shapes (2D)</b></p> <ul style="list-style-type: none"> <li>• Describe the properties of 2-D shapes (square, rectangle, triangle)</li> </ul>	<p>7a, 7b</p>	<p>7b</p>	<p>11</p>
<p><b>Geometry – Shapes (3D)</b> Describe 3-D Shapes using accurate language</p>	<p>8a, 8b</p>		
<p><b>Total number of items</b></p>	<p>22</p>	<p>15</p>	<p>4</p>
<p><b>Total number of items: 27</b></p>			

Test Specification Table 4th – Grade

Common Items	Understanding concepts and recalling facts	Performing computations – Algorithms	Solving Problems
<p><b>Whole Numbers - Place value – Rounding</b></p> <ul style="list-style-type: none"> <li>Order and compare numbers <u>beyond 10000</u></li> <li><u>Place value</u> of each digit in a <u>four-digit number</u></li> </ul>	<p>1a, 1b 2a, 2b, 2c 3a, 3c, 3d, 3e, 3f 10a</p>	<p>10a</p>	
<p><b>Arithmetic Operations</b></p> <p><u>Addition and subtraction</u></p> <ul style="list-style-type: none"> <li>Up to 4 digits</li> </ul> <p><u>Multiplication and division</u></p> <ul style="list-style-type: none"> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout (<u>short multiplication</u>)</li> <li>Formal written method of <u>short division</u></li> <li>Associative</li> <li>Distributive</li> </ul>		<p>3a, 3b, 3c, 3d, 3e, 3f 4a, 4b</p>	<p>13a, 13b</p>
<p><b>Fractions and Decimals</b></p> <p><b>Fractions</b></p> <ul style="list-style-type: none"> <li><u>Recognize, compare and order</u> fractions.</li> </ul>	<p>10b, 10c</p>	<p>10b, 10c</p>	

<ul style="list-style-type: none"> <li>• <u>Find and write</u> fractions of a discrete set of objects.</li> </ul> <p><b>Decimals</b></p> <ul style="list-style-type: none"> <li>• <u>Compare and order</u> numbers with up to two decimal places</li> <li>• <u>Addition and subtraction</u></li> </ul>	3b	3b	
<p><b>Measurement</b></p> <ul style="list-style-type: none"> <li>• Convert between different units of measure: <ul style="list-style-type: none"> <li>▪ Lengths (m, cm)</li> <li>▪ Mass (kg, g)</li> <li>▪ Volume (ml, l)</li> <li>▪ Time</li> <li>▪ Money</li> </ul> </li> </ul> <p><b>Data – Statistics</b></p> <p><u>Interpret</u> bar charts and tables</p>	11a, 11b, 11c, 11d, 11e	11a, 11b, 11c, 11d, 11e	13a
	9a	9b	
<p><b>Geometry – Shapes (2D)</b></p> <ul style="list-style-type: none"> <li>• Recognize and describe <u>2D shapes</u> (e.g.rhombus, parallelogram, square, rectangle)</li> <li>• Recognize <u>3-D shapes</u> and describe them</li> <li>• Find the <u>perimeter</u> of a 2D shape</li> <li>• Find the <u>area</u> of <u>rectilinear shapes</u> by <u>countingsquares</u></li> </ul>	5a, 5b, 5c, 5d, 5e 6 7a, 7b 8ai, 8aii, 8bi, 8bii	8aii, 8bii	6 12

<b>Geometry – Shapes (3D)</b> <ul style="list-style-type: none"> <li>Describe 3-D Shapes (e.g. Cuboid) using accurate language (i.e. faces, edges)</li> </ul>			
<b>Total number of items</b>	<b>32</b>	<b>20</b>	<b>5</b>
<b>Total number of items: 38</b>			

Test Specification Table 5th – Grade

Common Items	Understanding concepts and recalling facts	Performing computations – Algorithms	Solving Problems
<p><b>Whole Numbers - place value - Rounding</b></p> <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 100 000 and determine the <u>value of each digit</u></li> <li>Rounding</li> </ul>	<p>1a, 1b, 1c 2a, 2b, 2c 3a, 3b, 3c, 3d, 3e, 3f, 3g</p>	<p>1a, 1b, 1c 2a, 2b, 2c</p>	
<p align="center"><b>Operations</b></p> <p><b>Addition and subtraction</b></p> <ul style="list-style-type: none"> <li>Up to 4 digits</li> </ul> <p><b>Multiplication and division</b></p> <ul style="list-style-type: none"> <li>Short and long multiplication</li> <li>Short division</li> </ul>		<p>3a, 3b, 3c, 3d, 3e, 3f, 3g 4a, 4b 13bi</p>	<p align="center">8 13a</p>
<p align="center"><b>Fractions and Decimals</b></p> <p align="center"><u>Fractions</u></p> <ul style="list-style-type: none"> <li>Compare and order fractions whose denominators are all multiples of the same number</li> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number</li> <li>Recognize mixed numbers and improper fractions and convert from one form to the other</li> <li>Multiply proper fractions and mixed numbers by whole numbers</li> </ul> <p align="center"><u>Decimals</u></p> <ul style="list-style-type: none"> <li>Read, write, order and compare numbers with up to three decimal places.</li> <li>Read and write decimal numbers as fractions</li> <li>Add and subtract decimals</li> </ul>		<p align="center">9a, 9b 10a, 10b, 10c, 10d</p>	

<p align="center"><b>Measurement</b></p> <p>Convert between different units of metric measure: units of <u>lengths</u> (km,m,cm,mm), mass (kg, g), volume (l,ml),time, money</p>	12a, 12b, 12c, 12d, 12e	12a, 12b, 12c, 12d, 12e	
<p align="center"><b>Data – Statistics</b></p> <p>Interpret and present data using appropriate graphical methods (bar charts, pictograms, tables)</p>	11a, 11b, 11c	11a, 11b, 11c	11d
<p align="center"><b>Geometry – Shapes (2D)</b></p> <ul style="list-style-type: none"> <li>Recognize and describe <u>2D shapes</u> (e.g. rhombus, parallelogram, square, rectangle)</li> <li>Perimeter (simple 2-D shapes)</li> <li>Area</li> <li>Estimate and compare acute, obtuse and right angles</li> <li>Angle sum facts -deductions about missing angles</li> </ul>	5a, 5b, 5c 6a, 6b, 6c, 6d	13bii	7 13bi
<b>Total number of items</b>	<b>28</b>	<b>31</b>	<b>5</b>
<b>Total number of items: 42</b>			



Specification Table – Grade 6<sup>th</sup>

Common Items	Understanding Concepts and recalling facts	Performing computations – Algorithms	Solving Problems
<p><b>Number and place value</b></p> <ul style="list-style-type: none"> <li>Read, write, order and compare numbers and determine the value of each digit</li> </ul> <p>Up to 1 000 000 000</p> <ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy</li> <li>Prime numbers and Composite numbers</li> </ul>	<p>1a, 1b, 1c 2a, 2b, 2c, 2d, 2e</p>	<p>1a, 1b, 1c</p>	
<p><b>Arithmetic Operations</b></p> <ul style="list-style-type: none"> <li>Addition, subtraction</li> <li>Multiply multi-digit numbers up to 2 digits by a two-digit whole number (short and long multiplication)</li> <li>Divide numbers up to 4 digits by a two-digit whole number (short and long division)</li> <li>Order of operations</li> </ul>	<p>2f, 2g</p>	<p>2a, 2b, 2c, 2d, 2e, 2f, 2g 10ai</p>	<p>3a, 3b 10b, 10c</p>

<p align="center"><b>Decimals, Fractions, Percentages</b></p>			
<p><u>Decimals</u></p> <ul style="list-style-type: none"> <li>• Order and compare decimal numbers</li> <li>• Identify the value of each digit in numbers given to three decimal places</li> <li>• Add and subtract decimals</li> <li>• Multiply one-digit numbers with up to two decimal places by whole numbers</li> <li>• Division of decimal numbers by one-digit whole number</li> </ul> <p><u>Fractions</u></p> <ul style="list-style-type: none"> <li>• Compare and order fractions (<math>&gt;1</math>)</li> <li>• Add and subtract fractions with the same and different denominators and mixed numbers</li> <li>• Multiply simple pairs of proper fractions</li> <li>• Recognize mixed numbers and improper fractions and convert from one form to the other</li> <li>• Convert decimals to fractions and vice versa</li> <li>• Fractions of a number (for example <math>\frac{2}{3}</math> of 12)</li> </ul> <p><u>Percentages</u></p> <ul style="list-style-type: none"> <li>• Convert between percents, fractions and decimals</li> <li>• Solve problems involving the calculation of percentages</li> </ul>	<p>7a, 7b, 7d, 7e, 7f</p>	<p>7a, 7c 8a, 8b, 8c</p>	

<p><b>Measurements</b> Use, read, write, solve problems and convert between standard units :</p> <ul style="list-style-type: none"> <li>➤ length: km/m/ cm/ mm,</li> <li>➤ mass: kg, g,</li> <li>➤ volume/ capacity: l, ml</li> <li>➤ time</li> <li>➤ money</li> </ul>	9a, 9b, 9c, 9d	9a, 9b, 9c, 9d	10c
<p><b>Geometry- Shapes (2D-3D)</b> <b>3-D shapes:</b></p> <ul style="list-style-type: none"> <li>• Recognise and describe 3-D shapes (cube, cone, cuboids, sphere, pyramids)</li> <li>• Area</li> <li>• Volume of cubes and cuboids</li> </ul> <p><b>2-D shapes:</b></p> <ul style="list-style-type: none"> <li>• Polygons</li> <li>• Classify geometric shapes based on their properties and find unknown angles in any triangles, quadrilaterals</li> <li>• Perimeter</li> <li>• Area</li> <li>• Estimate and compare acute, obtuse and right angles</li> </ul>	6	5 6 10aii	10ai
<p><b>Data</b></p> <ul style="list-style-type: none"> <li>• Interpret and present data using appropriate graphical methods ( pie charts, bar charts and tables )</li> </ul>	4a	4b, 4c	4d
<b>Total number of items</b>	<b>21</b>	<b>25</b>	<b>7</b>
<b>Total number of items: 35</b>			