

COMPETENCY BASED ASSESSMENT TEST (New Syllabus)

SUBJECT: MATHEMATICS (Sample paper) TOTAL MARKS: 25

CLASS: III TIME: 1 Hour 15 Minutes

Name: _____ Roll no: _____

School: _____ Section: _____

Points to Remember

- 1. Write your name, roll number, section and the name of your school in the space given above.**
- 2. Read the questions carefully.**
- 3. Write your answers to each question in the given space.**
- 4. You must answer all questions.**
- 5. You have one hour to finish the test. Make good use of the given time.**
- 6. The mark for each question is given in brackets.**
- 7. Do not talk with your friends during the test.**

ALL THE BEST

For Teacher's Use Only

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total marks	Signature of Evaluator
Marks	1	1	1	1	1	1	1	2	1	1	1	1	1	2	3	2	2	2	25	
Marks scored																				

Question 1

Karma has 527 marbles in his collection. Sketch 527 with base ten blocks. [1]

(Use the base ten blocks shown on the right.)



Hundreds block



Tens block



Ones block

Question 2

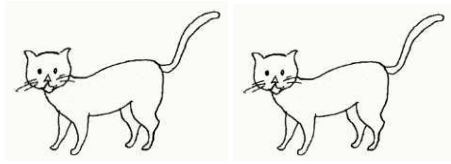
Rewrite the following numbers in Roman numerals.

$$\left[\frac{1}{4} \times 4 = 1 \right]$$

Numbers	Roman numerals
4
8
12
20

Question 3

A cat has four legs. Two cats have eight legs as shown in the picture. $[\frac{1}{2} \times 2 = 1]$



Complete the t-chart given below.

Number of cats	Total number of legs
1	4
2	8
3
4
5
6

Question 4

Write the following base ten blocks in the standard form.

$[\frac{1}{2} \times 2 = 1]$

a)



b)



Question 5

Dorji has 5 apples. He cuts each apple into 4 equal pieces as shown below. How many pieces of apple did Dorji cut? **[1]**

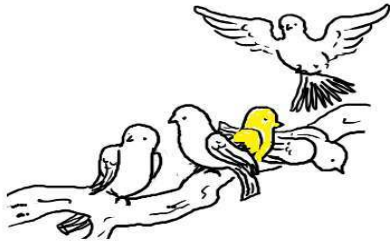
Question 6

A soap cost Nu 10. How many soaps can Sergyel buy with Nu 150? **[1]**

Question 7

Look at the picture of birds given below:

[1]



What fraction of the total birds are shaded?

Question 8

[4 X $\frac{1}{2}$ = 2]

Solve

a) $49 + 321 + 7$

b) $492 - 349$

c) 4 thousands + 2 hundreds + 5 tens + 4 ones

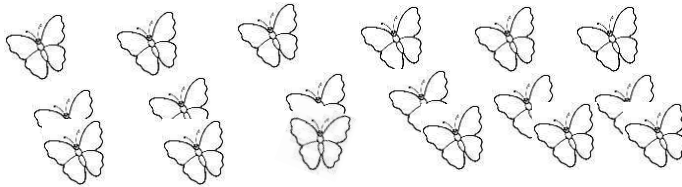
d) Write the missing digits in the boxes below

$$\begin{array}{r} \square \quad 9 \quad 6 \\ - \quad 2 \quad \square \quad 7 \\ \hline 4 \quad 6 \quad 9 \end{array}$$

Question 9

[1]

Write **TWO** multiplication sentences for the set of pictures arranged below?



1).....

2).....

Question 10

3 oranges cost Nu 10. How much will 6 oranges cost?

[1]

Question 11

Write the following numbers in expanded form.

$[\frac{1}{2} \times 2 = 1]$

a) 4360 =

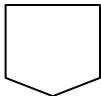
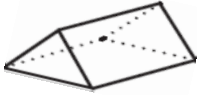


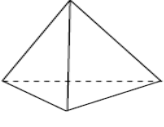
.....

b) 306 =

.....

Question 12

Match the name each shape against the picture of shape given below. $[4 \times \frac{1}{4} = 1]$

Names	Shapes
1. Triangular pyramid	A. 
2. Pentagon	B. 
3. Nonagon	C. 
4. Triangular prism	D. 
	E. 

Answer:

1.....,2.....,3.....,4.....

Question 13

Dechen had 6 black marbles, 3 gray marbles and 1 white marble. She put all the marbles in a bag. Then she closed her eyes and picked one marble out of the bag. The probability that the marble she picked was white. [1]

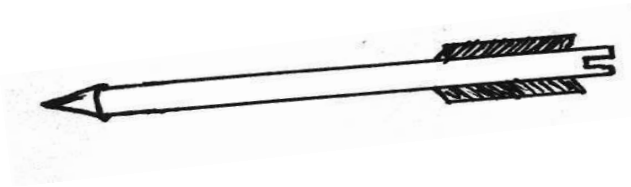
Choose and **CIRCLE** the correct word given below that describes the event above.

Likely	Unlikely	Impossible	Possible	Certain
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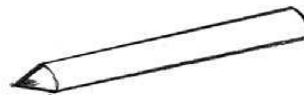
Question 14

[1/2+1/2+1=2]

Measure the length of the objects given below with the help of a ruler.



Arrow



Pencil

- a) The length of the pencil is aboutcm.
- b) The length of the arrow is about.....cm.
- c) Which object is longer and by how much?.....

Question 15

Arrange the following values from the least to greatest.

[3X 1= 3]

- a) 5kg, 500g, $1\frac{1}{2}$ Kg, 50g, 1000g.

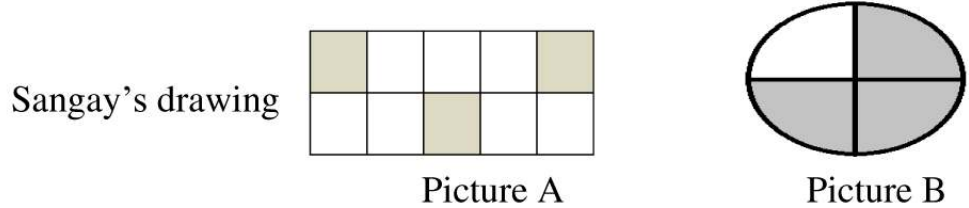
.....

- b) 200ml, 1L, $\frac{1}{2}$ L, 600ml, $2\frac{1}{2}$ L.

- c) 2 km, 3000m, 2mm, half a km, 30cm.

Question 16

Sangay drew two pictures to show 0.3 by shading the pictures as shown below. [2]

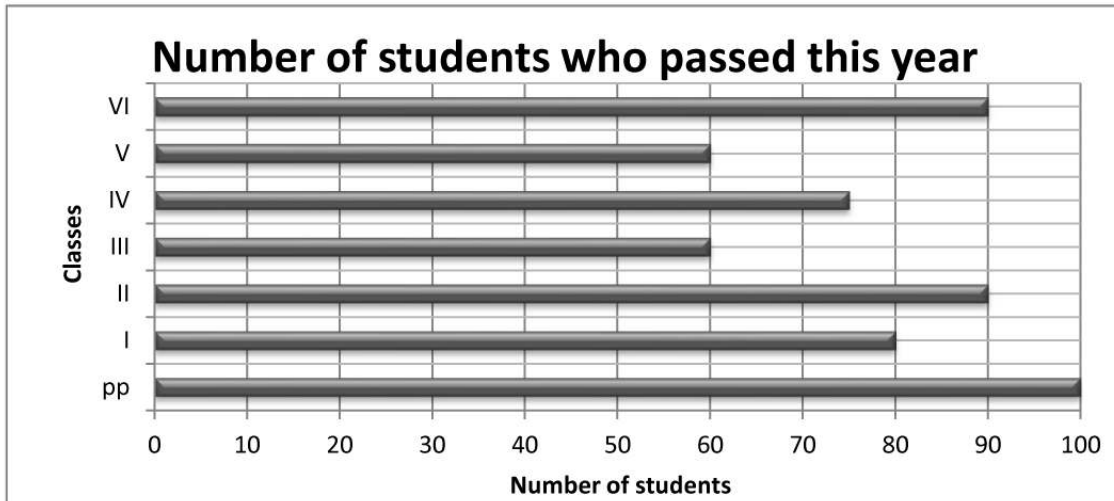


Which picture is shaded correctly? Why?

Question 17

[2 X 1 = 2]

The graph below shows the number of students who passed in Kagtong Primary School this year.



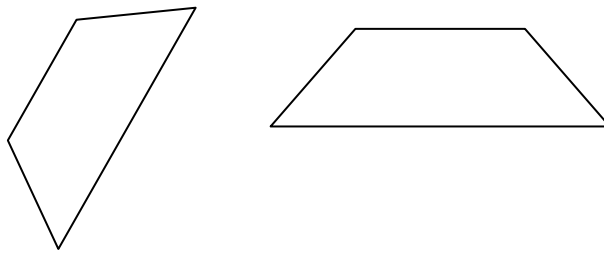
a) Is the result of Kagtong Primary school good? Why?

b) How many students would to be in class III next year? Explain your answer.

Question 18

[2]

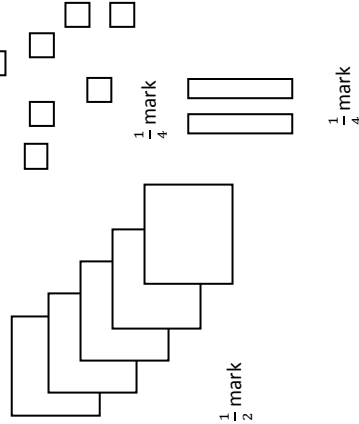
Combine the shapes given below and to form a new shape? Draw and name the shape.



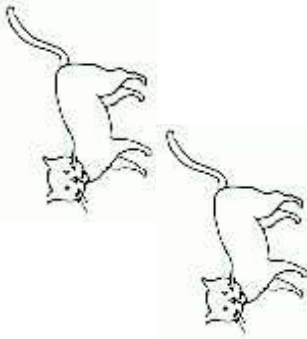
CBAT Test Blue Print for Class III Mathematics 2014(New Syllabus)

Sl.No.	Chapters/Topics/Cognitive Domains	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	Total
1	Addition & Subtraction		Q4. (1mark)	Q8. (2marks)				3
2	Geometry				Q13.(1mark)		Q18.(2marks)	3
3	Multiplication		Q5.(1marks)	Q9.(1mark)				2
4	Division		Q6.(1mark)	Q10.(1mark)				2
5	Numbers	Q1.(1mark)		Q11.(1mark)				2
6	Measurement; Time & length				Q14.(2marks)			2
7	Fraction & Decimal		Q7.(1marks)			Q16.(2marks)		3
8	Data & Probability			Q12.(1mark)		Q17.(2marks)		3
9	Measurement; Mass, Capacity & Area				Q15.(3marks)			3
10	Dzongkha & Roman numbers	Q2. (1mark)						1
11	Pattern	Q3.(1mark)						1
Total		3	4	6	6	4	2	25

Competency Based Assessment Test (Sample Model Answer Paper for Class III New Syllabus Mathematics 2014 Onwards)

Questions	Answer	weighting										
<p>1. Karma has 527 marbles in his collection. Sketch 527 with base ten blocks?</p>		<p>1 mark</p>										
<p>2. Rewrite the following numbers in ROMAN numbers.</p>	<table border="1" data-bbox="738 1123 1177 1365"> <thead> <tr> <th>Numbers</th> <th>Roman Numbers</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>IV</td> </tr> <tr> <td>8</td> <td>VIII</td> </tr> <tr> <td>12</td> <td>XII</td> </tr> <tr> <td>20</td> <td>XX</td> </tr> </tbody> </table>	Numbers	Roman Numbers	4	IV	8	VIII	12	XII	20	XX	<p>1 mark</p>
Numbers	Roman Numbers											
4	IV											
8	VIII											
12	XII											
20	XX											

3. A cat has four legs. Two cats have 8 legs as shown below in the picture.



Complete the t-chart given below.

Number of cats	Total number of legs
1	4
2	8
3	12
4	16
5	20
6	24

$\frac{1}{4}$ mark

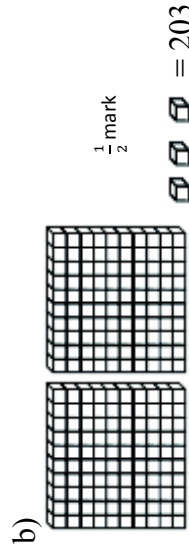
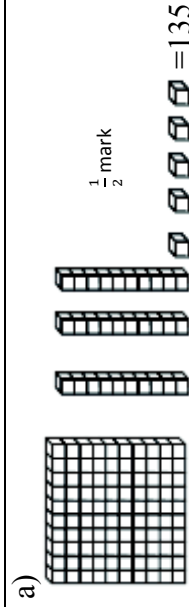
$\frac{1}{4}$ mark

$\frac{1}{4}$ mark


$\frac{1}{4}$ mark

1 mark

4. Write the following base ten blocks in standard form.

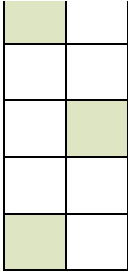
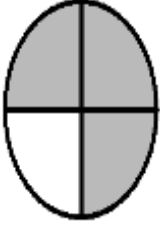


1 mark

<p>5. Dorji has 5 apples. He cuts each apple into 4 equal pieces as shown below. How many apple pieces of apple did Dorji cut?</p>	<p>Multiplication sentence: $\frac{1}{2}$ mark $5 \times 4 = 20$ OR $4 \times 5 = 20$</p> <p>Dorji made 20 pieces of apples out of 5 apples altogether.</p>	<p>1 mark</p>
<p>6. A soap cost Nu 10. How many soaps can Sergyal buy with Nu 150?</p>	<p>Division sentence: $\frac{1}{2}$ mark $150 \div 10 = 15$</p> <p>Sergyal can buy 15 soaps with Nu 150. $\frac{1}{2}$ mark</p>	<p>1 mark</p>
<p>7. Look at the picture of birds given below:</p>  <p>What fraction of the total birds are black?</p>	<p>$\frac{1}{5}$ of the birds are black. 1 mark</p>	<p>1 mark</p>
<p>8. Solve</p>	<p>a) $49 + 321 + 7$</p> $\begin{array}{r} 321 \\ 49 \\ + 7 \\ \hline 377 \end{array}$ <p style="text-align: right;">$\frac{1}{2}$ mark</p>	<p>2 marks</p>

	<p>b) $492 - 349$</p> $\begin{array}{r} 8 \ 12 \\ 4 \ 9 \ 2 \\ - 3 \ 4 \ 9 \\ \hline 1 \ 4 \ 3 \end{array}$ <p style="text-align: right;">} $\frac{1}{2}$ mark</p> <p>c) 4 thousands + 2 hundreds + 5 tens + 4 ones = 4254 . $\frac{1}{2}$ mark</p> <p>d) Write the missing digits</p> $\begin{array}{r} \boxed{4} \ 9 \ 6 \\ - \quad \boxed{2} \ 7 \\ \hline 4 \ 6 \ 9 \end{array}$ <p style="text-align: right;">} $\frac{1}{2}$ mark</p>	
<p>9. Write TWO multiplication sentences for the set of pictures arranged below?</p>	<p>$3 \times 6 = 18$ $\frac{1}{2}$ mark</p> <p>and $6 \times 3 = 18$ $\frac{1}{2}$ mark</p>	<p>1 mark</p>
<p>10. 3 oranges cost Nu 10. How much will 6 oranges cost?</p>	<p>3 orange -----Nu 10</p> <p>1 orange.....$\frac{10}{3}$ $\frac{1}{2}$ mark</p> <p>6 oranges.....$10 \times \frac{6}{3} = 20$ $\frac{1}{2}$ mark</p> <p>Nu 20</p>	<p>1 mark</p>

<p>11. Write the following numbers in expanded form.</p>	<p>a) 4360 = 4 thousands + 3 hundreds + 6 tens OR 4000 + 300 + 60 b) 306 = 3 hundreds + six ones OR 300 + 6</p>	<p>1 mark</p>
<p>12. Match the name of each shape against the picture of shape given below.</p>	<p>1. E 2. A 3. D 4. B</p> <p style="text-align: center;">} ¼ marks for each</p>	<p>1 mark</p>
<p>13. Dechen had 6 black marbles, 3 gray marbles and 1 white marble. She put all the marbles in a bag. Then she closed her eyes and picked one marble out of the bag. The probability that the marble she picked was white.</p> <p>Choose and CIRCLE the correct word given below that describes the event above.</p>	<p style="text-align: center;">Unlikely</p>	<p>1 mark</p>
<p>14. Measure the length of the objects given below with the help of a ruler.</p> <p>Arrow Pencil</p>	<p>a) the length of the pencil is about cm b) the length of the arrow is about.....cm } 1 mark c) Which object is longer? By how much. Arrow .find the difference } 1 mark</p>	<p>2 marks For question a) and b) the answer depend upon the measurement. Round up to centimeter.</p>

<p>15. Arrange the following values from the least to greatest.</p> <p>a) 5kg, 500g, 1000g, 1$\frac{1}{2}$ Kg, 50g, 1000g.</p> <p>b) 200ml, 1L, $\frac{1}{2}$ ml, 600ml, 2$\frac{1}{2}$ L.</p> <p>c) 2 km, 3000m, 2mm, half a km, 30cm.</p>	<p>a) 50g, 500g, 1000g, 1$\frac{1}{2}$ Kg, 5 kg.</p> <p>b) 200ml, 1$\frac{1}{2}$ ml, 600ml, 1L, 2$\frac{1}{2}$ L.</p> <p>c) 2mm, 30cm, 3000m, half a km, 2km.</p> <p style="text-align: right;">1 mark each</p>	<p>3marks</p>
<p>16. Sangay drew two pictures to show 0.3 by shading the pictures as shown below.</p> <p>Sangay's drawing</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Picture A</p> </div> <div style="text-align: center;">  <p>Picture B</p> </div> </div> <p>Which picture is shaded correctly? Why?</p>	<p>Picture A is shaded correctly because picture B shows $\frac{3}{4}$ of a whole which is equal to 0.75. where picture A show $\frac{3}{10}$ a whole, which is equal to 0.3 .</p> <p>[identifying correct drawing 1 mark] [giving reason 1 mark]</p>	<p>2marks</p>

