

## Department of Education - Western Province

Year End Evaluation - 2013

Grade 6  
Mathematics

1256

Name / Index No : .....

Time : 2 Hours

- Answer all the questions 1 to 20 on this paper itself.
- Two marks each for questions 1- 20.

### Part I

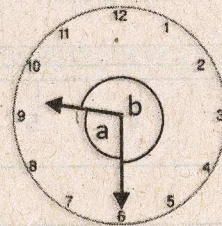
1. Simplify.  $4775 + 17 + 233$

2. Write one million two hundred and twenty four thousand seven in the numerical form.

3. Fill in the blanks.  $107\text{cm} = \underline{\hspace{2cm}}\text{m} \underline{\hspace{2cm}}\text{cm}$

4. Time in the clock face given in the figure is 9.30 a.m.

Which type of angles are a and b.



a - ..... b - .....

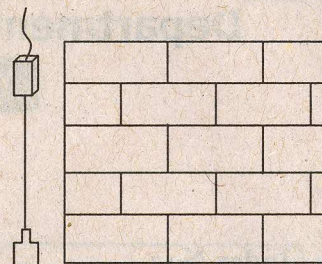
5. Fill in the blanks using  $>$  or  $<$ .

(i)  $0 \square 5$

(ii)  $-10 \square -9$



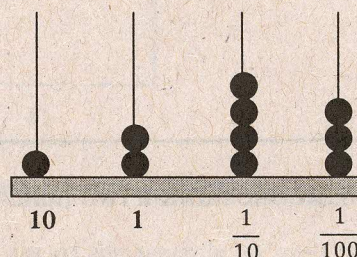
6. (i) What is the name of the equipment given in the diagram,  
which is used by masons.



- (ii) For what do they use this?

7. Simplify.  $\frac{1}{4} + \frac{1}{8}$

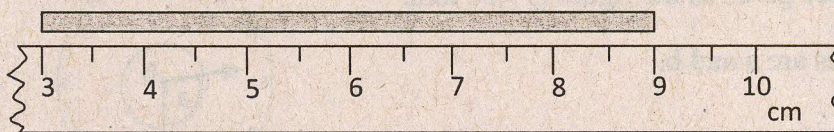
8. Write the number represented on the abacus given.



9. Write the times given below in the 24 hour clock.

- (i) 8.30 a.m. = ..... (ii) 2.10 p.m. = .....

10. A part of a ruler marked in centimeters is given in the diagram. What is the length of the piece of the ribbon?



11. The length of a certain river, to the nearest tenth place is 330 km. Write the maximum and minimum whole number values that can be have as actual length.

- (i) Minimum length = \_\_\_\_\_ km

- (ii) Maximum length = \_\_\_\_\_ km



12. Simplify.

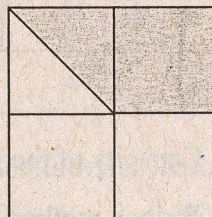
$$\begin{array}{r} 3.275 \\ -1.687 \\ \hline \hline \end{array}$$

13. Choose and write the prime numbers and composite numbers, out of the numbers in the box.

6, 11, 23, 8, 9, 17, 4, 2

Composite numbers ..... Prime numbers .....

4. (i) Write the shaded portion as a fraction of a whole figure.



- (ii) Write an equivalent fraction for  $\frac{4}{11}$ .

15. Cost of an exercise book is Rs.32. Find the cost of 8 books.

6. Fill in the blanks according to the data given.

Tally marks	Number
(i) $\text{///} \text{///} \text{///}$	-----
(ii) -----	15

17. 200ml of drink can be contained in one glass. How many glasses can be filled by 1/200ml of drink?

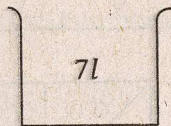


18. Fill in the blanks.

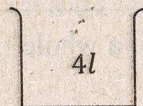
$$56 = \square^{\square} \times 7$$

19. Write the numbers 1.02, 0.75, 1.2 and 0.8 in ascending order.

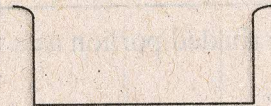
20.



A



B



C

Capacity of the vessel 'A' is 7 l and the capacity of the 'B' vessel is 4 l. 'C' is another vessel. Write a method to fill 10 l of water into vessel 'C' with use of the vessels 'A' and 'B'.



## Part II

- Answer the first question and four more questions.
- First question carries 16 marks and other questions carry 11 marks each.
- Answer second part in a separate paper and attach to the first part.

01. (a) Remind the report you prepared about the quantities and the expenses of the food consumption of your house and answer the questions given below.
- (i) Write two advantages can be obtained by preparing a report on the expenses of the food items you need for your house.
- (ii) The report prepared by Sunimal on the expenses of certain number of food items needed for two weeks for his house is given below. Copy down it to your answer paper and fill in the blanks.

Name of the student :- Sunimal

Food Item	Quantity needed for two weeks	Cost of 1kg	Expenses for two weeks
Rice	14kg	Rs. 60.00	.....
Tea leaves	250g	.....	Rs. 300.00
Sugar	.....	Rs. 100.00	Rs. 250.00
Dhal	1kg 750g	Rs. 120.00	.....
Potatoes	.....	Rs. 80.00	Rs. 240.00
Total Expenses			Rs. ....

- (iii) Write the ratio between the amount of sugar and amount of tea leaves that were needed for Sunimal's house during the above two weeks. Write the ratio in the simplest form.
- (iv) The amount of rice that was needed for Kamal's house is 12 kg 250 g. How much more rice was needed for Sunimal's house than Kamal's house?

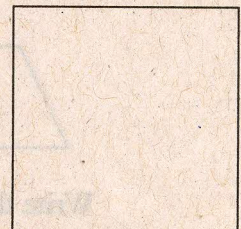
- (b) (i) Simplify.

$$\begin{array}{r}
 \text{kg} \quad \text{g} \\
 2 \quad 275 \\
 + 3 \quad 825 \\
 \hline
 \hline
 \end{array}$$

- (ii) The value of one American dollar is Rs. 115. Find the value of Rs. 1150 in American dollars.

02. (i) Find the perimeter of the square given in the figure.
- (ii) Find the area of it.
- (iii) Draw a rectangle with measurements, which has the same perimeter of this square.
- (iv) Find the area of the above rectangle.
- (v) What can you say about the area of the square and area of the rectangle.
- (vi) It is needed to cut a circle with a maximum area, using the above square. Find its radius.















8cm




8cm



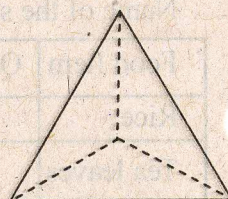
03. The pictograph given below represents the number of students who prefer each fruit, in a certain school.

Bananas	   
Pineapples	  
Mangoes	 
Grapes	
Oranges	    

- (i) In the pictograph, how many students are represented by the symbol , if 400 students prefer bananas?
- (ii) How many students like pineapples?
- (iii) 300 students like grapes. Represent this in the pictograph.
- (iv) Which fruit is preferred by most number of students?
- (v) How many students like pineapples than mangoes?
- (vi) Find the total number of students in this school.

04. (a) In the solid given in the figure, all the edges are equal in length.

- (i) What is the name of this solid?
- (ii) What is the shape of a face?
- (iii) Draw the block used to prepare this solid.
- (iv) Write the number of edges, vertices and faces of this solid.



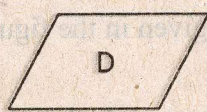
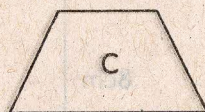
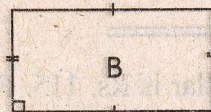
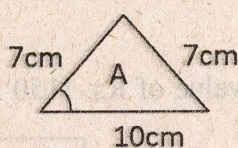
- (b) (i) Dinithi had Rs. 50. She bought a book for Rs.  $x$ . Write an expression for the remaining amount of money.
- (ii) Find the remaining amount, by substituting  $x = 30$ .

05. (a) (i) Write the given set with elements. {Even numbers less than 10}
- (ii) Write the given set as a description. {1, 3, 6, 10}
- (b) (i) Write 72 as a product of prime factors.
- (ii) Write the above product with the use of indices.
- (iii) Find the value of  $3^2 \times 4^2$

06. (a) Nimal went 10m to the North from his house. Then he went 20m to the East. After that he went 10m to the South.

- (i) Draw a rough diagram to represent the above data.
- (ii) According to the figure, in which direction is Nimal's house, from the place where he is now. Find the shortest distance between the house and the place where he is now.

- (b) (i)



Write the names of the rectilinear plane figures A, B, C and D.

- (ii) All the angles in this figure are right angles.  
Find the perimeter of this figure.

