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DEPARTMENT OF EDUCATION NORTH CENTRAL PROVINCE

Third Term Test - 2016

Mathematics

Grade
6

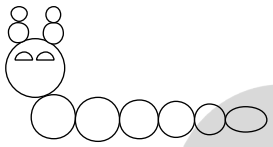
පාසලේ නම :- .....

ඇතුළත්වීමේ අංකය :- ..... Time: 2hrs

Part I

- Write answers in the paper itself. Each correct answer carries 02 marks.
- In part II answer question no 01 and other four questions. Show how you got the answers.

01. Find the number of circles in the given figure.



02. The vessel contains $4l$ $85ml$. Express that quantity in milliliters.

03. Find the value, $\frac{75}{100} - 0.25$

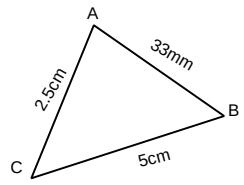
04. The length of a rectangle is $\frac{1}{2}m$ and breadth is $30cm$. Find the ratio between the length and breadth in the simplest form.

05. State whether the following statements are true (√) or false (×)

I. All triangular numbers are composite numbers. (…….)

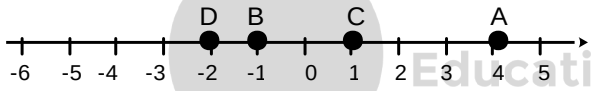
II. The numbers which are divisible by two and six, are even numbers. (…….)

06. Find the perimeter of ABC triangle in cm.



07. Find the value $15 \times 0 \times 7$

08. Write down the numbers marked on the number line in descending order.



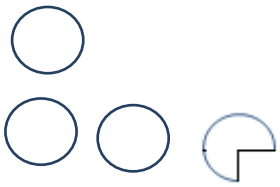
09. Find the value of $2^3 \times 3^2$

10. $4008 \div 8$

I. What is the quotient?

II. What is the remainder?

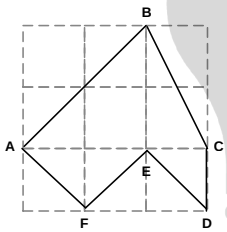
11. The picture graph is represented as ○ = 240. What is the quantity represented in following way.



12. Write two properties of a parallelogram.

13. A short film which was started at 19:25, telecasted during 40 minutes on Rupavahini. Write down the end time of the film in standard notation.

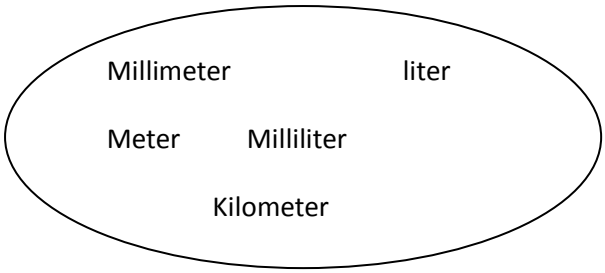
14. Find the area of the ABCDEF figure which have been drawn on a $1cm \times 1cm$ square grid.



15. If a runner takes 2 minutes to run 800m, find the time taken to run 200m in the same speed?

16. The number of coconuts which have brought to sell by a seller to the nearest 10 is 80. If 9 were damaged the remaining number of coconuts into nearest 10 is still 80. Find the number of coconuts that the seller brought to sell.

.17.



I. Separate the above measurements into two groups.

II. Give relevant names for above two groups.

18. Chathura has Rs x. Mother gives 8 more one rupee coins to Chathura. Write an algebraic expression for the total amount Chathura has now.

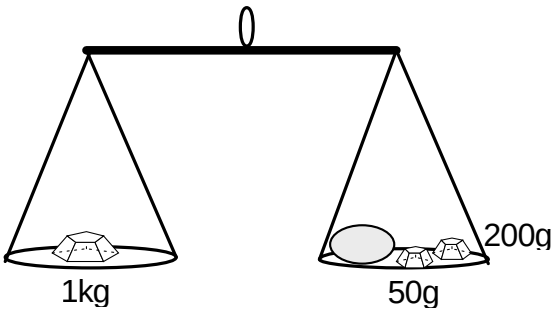
19. If Kasun who faces the East direction rotates by a right angle in clockwise, in which direction is his right hand now?

20. Kamal put Rs 5/= in his till on first day, Rs 10/= in his till on second day, Rs 15/= in his till on third day, …….. Like that he puts Rs 5/= more than the previous day in his till. Find in which day he can collect Rs 140/= in his till.

Part II

- Answer question No 01 and four others

01. The following figure shows a balance scale which is used to measure the mass of a papaw using only 1kg, 200g and 50g weights. Answer the following questions.



I. Find the mass of a papaw (2 marks)

II. When buying 3kg of papaw how many papaws would be there? Which equal in above mass should be bought? (3 marks)

III. If 1kg of papaw is Rs 100.00, find the price of a papaw. (3 marks)

IV. A fruit seller uses a box to transport the papaw. The mass of the stock of papaw with the box is 15kg and the mass of the empty box is 1kg and 480g. Find the mass of the stock of papaw. (3 marks)

V. Write the suitable unit to measure the following masses. (4 marks)

a. The mass of the grade six mathematics text book.

……

b. Mass of a tablet.

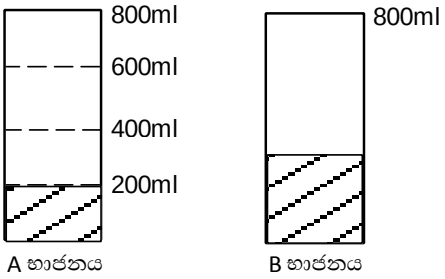
……

c. Mass of a sack of rice

……

d. Mass of the $500ml$ water bottle.

02. The two vessels which the quantity is $800ml$ are shown in the following diagram. 'A' vessel has $200ml$ of water and 'B' vessel has $\frac{3}{8}$ of its height of water.



I. What is the fraction of water in the vessel 'A' from whole vessel? (2 marks)

II. What is the amount of water in vessel 'B'? (2 marks)

III. If the water in vessel B is put into the vessel A, What is the amount of water in vessel A in liters? (3 marks)

IV. How many times should we have to use a $50ml$ vessel to fill vessel A completely (without wasting water.

(4 marks)

03. The daily attendance of the grade 06 students within a week is represented in the following picture graph.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

6 students are represented by symbol.

I. How many students were present to the school on Monday? (2 marks)

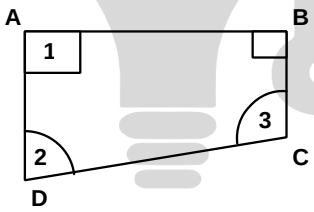
II. When the least number of students were present? (2 marks)

III. How many more students were present on Tuesday than on Thursday? (2 marks)

IV. If the attendance on Friday was 39, represent it on the relevant space. (2 marks)

V. Write the simplest form of the ratio between the attendance of students on Tuesday and Wednesday. (3 marks)

04.



I. Name the types of angles represented by 1,2 and 3 in quadrilateral ABCD. (3 marks)

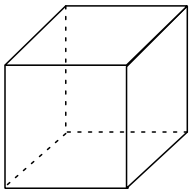
II. Write a reason for ABCD to be not a rectangle. (1 mark)

III. Name a solid which is equal to the cube. (1 mark)

IV. Name a solid which is equal to the cuboid. (1 mark)

V. How many pairs of equal faces are there in a cuboid which has different values of length, breadth and height from each other? (2 marks)

VI. The length of a side of the given cube is 4cm. A compound solid is made by placing a same cube on the upper face of the given cube. Write the length breadth and height of the compound solid. (3 marks)



Length ……cm

Breadth……..cm

Height…….cm

05.

$\frac{1}{3}$	$\frac{2}{5}$	$\frac{8}{20}$	$\frac{1}{7}$	$\frac{3}{10}$
$\frac{4}{5}$	0.3	0.03	0.5	

I. From the numbers given in the box, (2 marks)

a. Write down a unit fraction

b. Draw the figure which shades $\frac{4}{5}$

II. Choose and write an equivalent fraction for $\frac{2}{5}$ (1 mark)

III. Choose and write the greatest fraction from $\frac{1}{3}$ and $\frac{1}{7}$ (1 mark)

IV. Simplify $\frac{2}{5} + \frac{3}{10} - \frac{8}{20}$ (3 marks)

IV. Choose and write the equal decimal number for $\frac{3}{10}$ (2 marks)

V. Find the difference between the greatest decimal number and least decimal number. (2 marks)

06. Consider the following cards which has the numbers and provide the answers for the questions.

A	B	C	D
200 202 080	81	243	64

F	E
15	8 050 200

I. a) Write the number in card A in words. (1 mark)

b) Choose and write the triangular number. (2 marks)

II. Write the sum of the numbers in cards A and E (2 marks)

III. Write the number in card B as a power of 3. (2 marks)

IV. What cards have the square numbers out of B, D, F cards? (2 marks)

V. Write the multiple of cards C and F (2 marks)