Department of Education – Western Province Second Term Evaluation - 2018

Second Term Evaluation - 2018				
Grade 07	Mathematics	Time: 02 Hours		
Name:		Class:		
	Part I			
Answer all the questionEach question carries 0				
01. $A = \{ Digits of the no$	umber 50250}. Write the set A by lis	sting its elements.		
02. Find the value. 6 + 4	÷ 2			
03. Write all the factors of	of 18.			
04. When $a = 2$ and $b = 3$	3, find the value of ab^2 .			
05. Subtract. Months	Days 12 23			
06. Add. (-2)+(+8)				
07. Draw an acute angle	with the arms AB and BC.			
08. Find the Least Comn	non multiple of 6, 8, 12.			
09. Write the century tha	at the year 2000- 10- 30 AD belongs	to.		

10. Add. Years months days 06 20 3 07 15 11. 12 | 4 is a four digit number which is divisible by 4. Write a digit which is suitable for the blank box. 12. How many axes of symmetry are there in an equilateral triangle? 5 x 5 x a x 5 x a

13. Write the following product in index form.

14. From the following fractions, select and underline the improper fractions.

 $\frac{7}{9}$, $\frac{5}{5}$, $\frac{2}{3}$, $\frac{6}{5}$, $\frac{4}{9}$

15. Fill in the blanks using the symbols > or < or = .

 $3\frac{1}{4}$ $3\frac{3}{8}$

16. Write the following fraction as a decimal number.

3 5

17. Write a suitable number for the blank.

 $62.1 \div \dots = 6.21$

18. Simplify. $\frac{1}{6} + \frac{5}{12}$

19. p is a number. Write the number which is a less than the number p, in terms of a and p.

20. Express in milligrams. 3g 125 mg

Part II

- Answer the first question and another 04 questions only.
- First question carries 16 marks and other questions carry 11 marks each.
- 01. (a) It is decided to give every child in a certain hostel, a trouser and a shirt. Some information relevant for that is given in the following table.

Quantity of material needed for a child (m)		No of children	Price of 1m of cloth (Rs)	
trouser	Shirt	children	trouser	Shirt
2.25	1.5	40	200	150

For all the boys in the hostel,

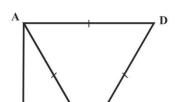
- Find the total quantity of material needed to saw shirts.
- Find the total quantity of material needed to saw trousers. ii.
- iii. Find the total cost of material needed to saw the cloths.
- (b) A fruit seller,
 - Bought a mango for Rs. a and a pine apple for Rs. b.
 - Sold a mango for twice the buying price of a mango.
 - Sold a pine apple for Rs. 5 more than the three times the buying price of a pine apple.
- i. Write the selling price of a mango in terms of a.
- ii. Write the selling price of a pine apple in terms of b.
- iii. Nimal bought 3 mangoes and a pine apple from the fruit seller. Write the total amount spent by Nimal in terms of a and b and express it in simplest form.
- 02. (a) Simplify and express the answer in simplest form.

(i)
$$\frac{5}{6}$$
 + $\frac{1}{4}$

(ii)
$$\frac{7}{8}$$
 - $\frac{5}{6}$

(i)
$$\frac{5}{6} + \frac{1}{4}$$
 (ii) $\frac{7}{8} - \frac{5}{6}$ (iii) $1\frac{1}{2} + 2\frac{1}{3}$

- A man owned 2 hectares of land. He gave $1\frac{1}{4}$ hectares of it to his son. Find the (b) remaining portion of land.
- 03. According to the information given in the figure, answer the following questions.



- i. Name a right angle triangle.
- ii. Name a scalene triangle.
- iii. Name a regular polygon.
- iv. If AB = 8cm, BC = 6cm and AC = 10cm, find the perimeter of ABCD quadrilateral.
- v. Nimal states that ABCD is a concave polygon. Do you agree with his statement? Give reasons.

04. (a) Solve.

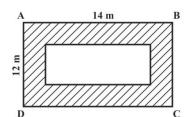
(i)
$$x + 2 = 3$$

(ii)
$$3x - 4 = 8$$

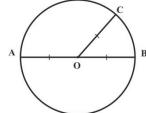
(b) Build up a simple equation for the following statement.

A book costs Rs. a and a pencil costs Rs. 10. Rs. 110 is needed to buy 4 such books and 3 pencils.

- (c) A lorry which transport goods, charges Rs. *n* to transport a mass of 1kg. The total mass of the goods needed to be transport is *m* kilograms. The total amount charged for that was Rs. *p*.
 - i. Write a formula for p, in terms of m and n.
 - ii. If n = 10 and m = 250, find the value of p.
- 05. (a) Area of a rectangle is 36 cm². Write two pairs of values for the length and the breadth of it.
- (b) ABCD is a rectangular shaped land. The shaded portion which is 2m wide, is covered with grass. Flowers were grown in the remaining portion of land.



- i. Find the area of the ABCD land.
- ii. Find the length and the breadth of the portion covered with flowers.
- iii. Find the area of the portion covered with grass.
- 06. (a) Length, breadth and the height of a cuboid shaped box is 1.2m, 0.9m and 75cm respectively. Find the volume of the box in cubic centimeters.
 - (b) Volume of a cuboid shaped box is 192cm³. If the length of it is 8cm and the height of it is 4cm, find the breadth of it.



- (c) Using the letters given in the circle, write down the centre, radius and the diameter of it.
- (d) Construct the circle with the diameter 8cm.
- 07. i. Multiply. 12g 75mg x 12
 - ii. Divide. 3kg 750g
 - iii. For a wall decoration, 7 pieces of ribbon is needed. If the length of one piece of ribbon is 8cm 6mm, find the total length of ribbon needed for the decoration.
 - iv. 5m and 8cm of cloth is needed to saw 8 flags of same size. Find the length of the piece of cloth needed to saw one such flag.