## **Department of Education – Western Province**

Second Term Evaluation - 2018						
Grade 07	Mathematics	Time: 02 Hours				
Name: Class: Part I						
01. $A = \{ Digits of the \}$	number 50250}. Write the set A by list	ting its elements.				
02. Find the value. 6 +	4 ÷ 2					
03. Write all the factor	rs of 18.					
04. When $a = 2$ and $b = 3$	= 3, find the value of $ab^2$ .					
05. Subtract. Month	ns Days 12 23					
06. Add. (-2)+(+8	)					
07. Draw an acute ang	le with the arms AB and BC.					
08. Find the Least Cor	nmon multiple of 6, 8, 12.					
09. Write the century t	hat the year 2000- 10- 30 AD belongs t	0.				

10. Add.	Years 2	months 06	days 20			
	+ 3	07	15			
11. 12 4 is blank box.	a four digit n	umber wh	ich is divis	ible by 4. Wi	rite a digit whic	ch is suitable for
12. How many	axes of symn	netry are tl	nere in an	– equilateral tri	angle?	
13. Write the f	following products 5 x a x 5		ex form.			
	ollowing fract $\frac{5}{5}$ , $\frac{2}{3}$ , $\frac{6}{5}$ ,		t and unde	rline the imp	proper fractions.	
15. Fill in the bl $3\frac{1}{4} $	lanks using the $3\frac{3}{8}$	symbols >	or < or = .			
16. Write the f $\frac{3}{5}$	ollowing fract	ion as a do	ecimal nun	ıber.		
17. Write a sui	table number		nk.			
18. Simplify.	<del>1</del> +	<u>5</u> 12				

## 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 r	No of children	Price of 1m of cloth (Rs)		
trouser	Shirt	ominar on	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.
- ii. Find the total quantity of material needed to saw trousers.
- 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.

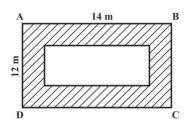
(i) 
$$x + 2 = 3$$

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

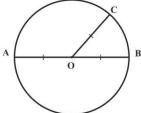
(b) Build up a simple equation for the following statement.

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 cm<sup>2</sup>. 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 192cm<sup>3</sup>. 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.

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