

පළාත් අධානපන දෙපාර්තමේන්තුව - උතුරු මැද පළාත. மாகாணக் கல்வித் திணைக்களம் - வட மத்திய மாகாணம் DEPARTMENT OF EDUCATION – NORTH CENTRAL PROVINCE



ශේණිය 7

2nd Term Test - 2018 Mathematics

පාසලේ නම :

ඇතුළත්වීමේ අංකය :

Time: 2 Hrs

Part I

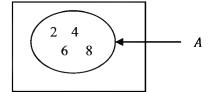
- Answer for all questions in the paper itself.
- 01. Express $\frac{13}{10}$ as a decimal number.

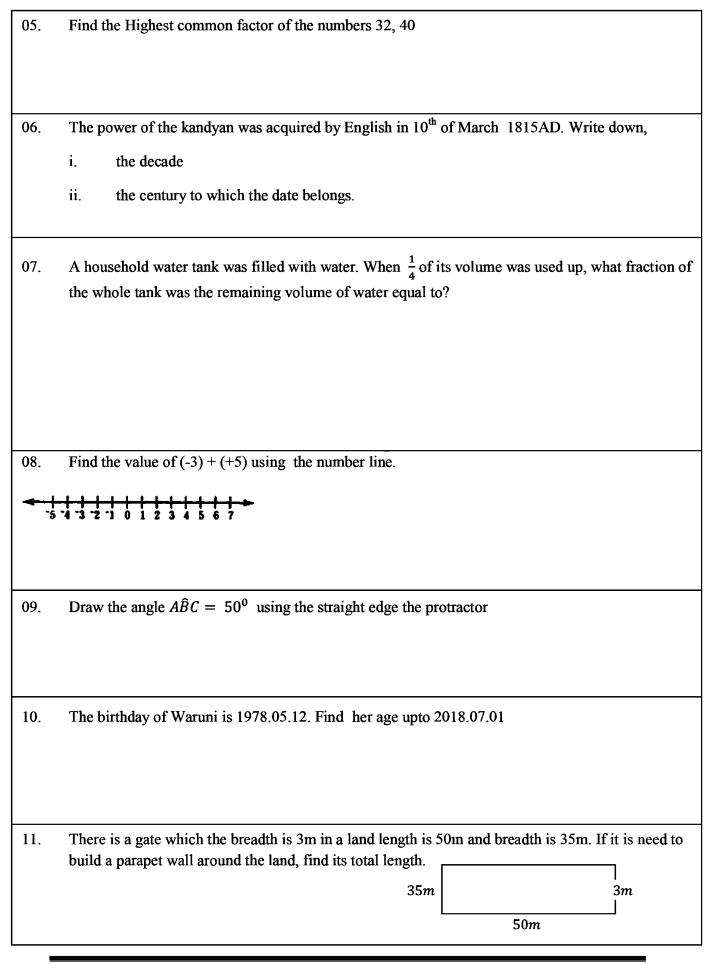
02. Draw the axis of symmetry in the diagram.



03. Simplify $10 - 6 \div 2$

04. Write down the set A in terms of a common property of its elements by which the elements can be clearly identified.





- 12. When 5*l* 850*ml* amount of water is divided between 3 persons equally. Find the amount of water one person received.
- 13. The masses of 3 parcels are shown in the figure. Find the total mass of 3 parcels.



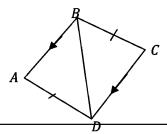




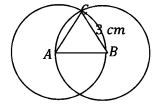
14. It is proposed to lay tiles on a rectangular floor and a floor tile shaded is shown in the figure. Estimate the number of tiles to need to lay in whole floor.



15. Name a pair of sides that not to be parallel



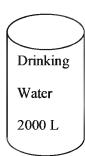
- 16. Simplify 10a 3b a + 2b
- 17. 100 gingerly balls are needed to serve for Naveen's Birthday. If the weight of a gingerly ball is 15g will 5 such type gingerly ball packets of 250g be sufficient for that?
- 18. The figure depicts intersecting of two circles at C which centers are A and B. According to the given information find the perimeter of the triangle ABC.



.19.	A side length 1cm cube is shown in the figure' If twice its length of a side how many times volume is large cube than small one.
	1 cm
20.	37 2, If the given number is divisible by 4 and 3 without remainder then write suitable digits for the cage.

Part II

- Answer only 5 questions including the **first** question.
- 01. a) A 2000*l* capacity water tank is filled completely with water.



i. State two standard units to use measuring volumes of liquids except the above unit.

(2 marks)

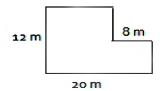
- ii. Write the relation between standard units you have written in (i) (1 mark)
- iii. If $\frac{1}{4}$ of the water in the tank is used. Find that amount in litres. (2 marks)
- iv. It is planned to fill the remaining water amount in to bottles containing 20*l* each. Find the number of bottles that can be filled. (consider the water is not wasted)

(3 marks)

v. If one bottle is Rs 60/- find the total price when selling every bottles above.

(3 marks)

b) The figure is shown of the plan of the cultivated land.

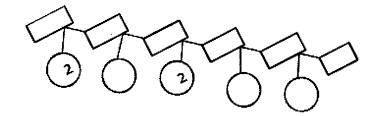


i. If it is proposed to cultivate banana in a plot of square shape land, find the length of the square that can be separated as the biggest one from the above land.

(2 marks)

ii. If it is separated a plot of land shape of a square of side length 2m for a banana plant. Find the number of banana plants can be cultivated in the above separated land. (3 marks)

02. a) For expressing 72 as a product of a prime numbers. Complete the blank cages in the following figure.



(4 marks)

- b.i. Write 54 as a product of powers of prime bases. (4 marks)
 - ii. expand $x^3 y^2$

(2 marks)

iii. When x = 2 and y = 1, Evaluate $x^2 y^2$

(2 marks)

03.a) Write the following fractions to the ascending order

(2 marks)

i. $\frac{2}{6}$, $\frac{2}{7}$, $\frac{2}{3}$, $\frac{2}{5}$

(2 marks)

ii. Simplify $3\frac{1}{2} + 7\frac{1}{4}$

(5 marks)

- b) Simplify
 - i. 0.785×100

(2 marks)

ii.. 74.5 ÷ 5

(2 marks)

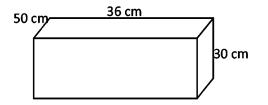
04.	We nura bought 3 apples for Rs. x each and 5 mangoes for Rs. 30/- each.						
a)	i.	Write the price	of apples he bough	t using x		(1 mark)	
	ii.	Write total price he spent as algebraic expression for buying apples and mangoes. (1 ma					
	iii.	If the price he spent was Rs. 285 to buy apples and mangoes above, cousing x'				ruct an equation (1 mark)	
	iv.	Find the price of an apple solving the above equation.				(4 marks)	
v. Siyan spent Rs. 300 for buying equal amount of apples and mangoe above type of apples and mangoes he could buy.						I the number of (3 marks)	
05.	i.	Construct a circle with the centre is 0 and the radius is 4cm using the compass				ght edge and the (2 marks)	
	ii.	Draw the diam	eter of it and name i	it as AB		(2 marks)	
	iii.	Construct a parallel line 3cm away from AB and to be parallel to AB using the and the straight edge. (3 m				ng the sets square (3 marks)	
	iv.	Name the points as x and y which the circle is intersected by the parallel line (2 marks)					
	V.	Join A,B,X,Y	for getting a closed i	figure and write the su	itable name for th	nat. (2 marks)	
06.	The figure is shown the lengths of several ribbon strips to used for a wall decoration. 15cm 8mm 18cm 17cm 3mm						
	R	ed colour	Blue colour	Yellow colour			

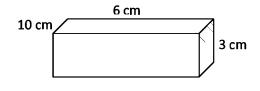
- I. When arranging this ribbons in ascending order what is the colour in the middle one?

 (1 mark)
- II. If three ribbon strips are used for the decoration, find the total length of it. (2 marks)
- III. Write 1.5m ribbon strip will required or not for such 10 decorations, giving reasons.

(3 marks)

(b) The figure is shown that two wooden cubes those are given length breadth and heights.





- i. Find the volume of large wooden cube (2 marks)
- ii. Find the number of small wooden cube that can be cut from large wooden cube without any wastage (3 marks)