ATOMIC ENERGY CENTRAL SCHOOL - 5, Mumbai

PEF	RIODIC TEST-1, JULY 2023	TIME: 1 1/2 HRS				
CLASS - VIII	SUB- MATHEMATICS	MAX.MARKS - 40				
	SECTION - A	(1×7=7 Marks)				
1) The rational numbers that are equal to their reciprocals?						
(a) 1,0 (b) -1, 1	(c) 2,3 (d) 2,1					
2) The angle of a quadrilat	teral are in the ratio 2:3:4:6. Find	the measure				
of the smallest angle.						
(a) 30° (b) 48°	(c) 180° (d) 144°					
3) If $\frac{a}{b} \times m = \frac{a}{b}$, then m =	= ?					
(a) $\frac{-a}{b}$ (b) Zero	(c) 1 (d) $\frac{a}{b}$					
4) What operations are not associative for rational numbers?						
(a) Addition, subtraction (b) Subtraction, Multiplication						
(c) Subtraction, Division	on (d) Multiplication, Addit	ion				
5) Rahul draws a ball from a bag that contains white and yellow balls.The probability						
of choosing a white ba	all is $\frac{2}{9}$. If the total number of	balls in the bag is 36, find				
the number of yellov	w balls.					
(a) 5 (b) 42 (c)	28 (d) 8					
6) The sum of additive inv	erse and multiplicative inverse o	of 2 is				
(a) $\frac{3}{2}$ (b) $\frac{1}{2}$	(c) $\frac{-3}{2}$ (d) $\frac{-1}{2}$					

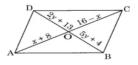
- 7) Find the measure of exterior angle of a regular polygon of 9 sides.
 - (a) 40°
- (b) 35°
- $(c) 60^{\circ}$
- (d) 50°

SECTION - B $(2 \times 8 = 16 \text{ Marks})$

- 8) Multiply $\frac{6}{3}$ by the multiplicative inverse of $\frac{-7}{15}$.
- 9) The pie chart given below shows the result of a survey carried out to find the modes of travel used by the children to go to school. Study the pie chart and answer the questions that follow.



- a) What is the most common mode of transport?
- b) If 18 children travel by car, how many children took part in the survey?
- 10) Solve: 15(y-4)-2(y-9)+5(y+6)=0
- 11) Simplify using appropriate properties, $\frac{-2}{3} \times \frac{3}{5} + \frac{5}{2} + \frac{-3}{5} \times \frac{1}{6}$
- 12) Find the values of x and y in the given parallelogram:



13) Ankit bought 2 packs of red pens, 1 pack of blue pens, and 3 packs of black pens. The red pen pack have 4 pens each. The blue pen packs and the black pen packs have 3 pens each. He places his all pens in a pen holder. What is Ankit's probability of picking a red pen from the pen holder?

14)
$$a = \frac{4}{5}$$
 (a + 10), Find a

15) Find the interior angle if each exterior angle of the regular polygon is 144°.

SECTION - C. $(3 \times 3 = 9 \text{ Marks})$

- 16) Find three rational numbers between $\frac{-2}{5}$ and $\frac{1}{4}$
- 17) Find the value of <DPA and < DAB



18) In a district, the number of branches of different banks is given below:

Draw a pie chart of given data.

Bank	State Bank of India	Bank of Baroda	Punjab National Bank	Canara Bank
Number of Branches	30	17	15	10

SECTION - D

- 19) From a well shuffled deck of 52 playing cards, a card is selected at random. Find the probability of getting
- (I) a black card
- (III) a card of diamond
- (II) an ace.
- (IV) Face cards
- 20) In the given figure both ABCD and PBRQ are parallelograms. Find the value of p?

