



INDIAN SCHOOL AL WADI AL KABIR

Holiday Assignment (2019-20)

Class: VIII

Sub: MATHEMATICS

Submission Date

Date : 23-05-2019

8th Aug 2019

Instructions:

- (i) All questions are compulsory
- (ii) Please write down the serial number of the question before attempting it.

Section A : Multiple Choice Question

Q.1. The value of $\frac{p}{q} + \frac{r}{q} =$

- | | | | | | | | |
|----------|---------------------|----------|-------------------|----------|-------------------|----------|---------------|
| A | $\frac{pq + rq}{q}$ | B | $\frac{p + q}{r}$ | C | $\frac{p + r}{q}$ | D | None of these |
|----------|---------------------|----------|-------------------|----------|-------------------|----------|---------------|

Q.2. If ABCD is a parallelogram, then $\angle B - \angle D$ is equal to

- | | | | | | | | |
|----------|-----|----------|----|----------|-----|----------|-----|
| A | 60° | B | 0° | C | 80° | D | 90° |
|----------|-----|----------|----|----------|-----|----------|-----|

Q.3. 8740000000 can be written in the standard form as:

- | | | | | | | | |
|----------|--------------------|----------|-----------------------|----------|-----------------------|----------|-------------------|
| A | 8.74×10^9 | B | 87.4×10^{-9} | C | 8.74×10^{-9} | D | 874×10^8 |
|----------|--------------------|----------|-----------------------|----------|-----------------------|----------|-------------------|

Section A : Match the following

	Column A	Column B
Q.4.	The sum of two rational numbers is $\frac{-5}{12}$. If one of the numbers is $\frac{-8}{21}$, the other number will be-----	(i) $\frac{-5}{84}$
Q.5.	The value of $\left(\frac{-2}{3}\right)^4$ is equal to	(ii) $\frac{-3}{84}$
Q.6.	The multiplicative inverse of $\frac{4}{28} \times \frac{-5}{12} =$	(iii) $\frac{5}{48}$
		(iv) $\frac{16}{81}$

Section B : Short Answer Questions (Type – 1)

Q.7.	The measures of two adjacent angles of a parallelogram are in the ratio 1:2. Find the measures of each of the angles of the parallelogram. Ans: 60°, 120°
Q.8.	Find : $\frac{-5}{3} \div \frac{25}{24}$ Ans: $-\frac{8}{5}$
Q.9.	Construct a square whose one side is 5.4 cm
Q.10.	ABCD is a Trapezium in which $\angle ADC = 115^\circ$ and $\angle ABC = 105^\circ$. Find i) $\angle DAB$ ii) $\angle BCD$
Q.11.	Express the following numbers in usual form: a) 3.768×10^{-5} b) 7.92×10^7
Q.12.	The value of $(5^{-1} + 3^{-1} + 2^{-1})^{-1} = \text{-----}$ Ans: $\frac{30}{31}$

Section C : Long Answer Questions (Type – 1)

Q.13.	Find the value of 'p' for which, $32 \times 2^{p+2} = 2^{10}$
Q.14.	Simplify: $\left[\left(\frac{-3}{5}\right)^{-2}\right]^3 \times \left(\frac{1}{5}\right)^{-6}$ Ans: $\left(\frac{-25}{3}\right)^6$
Q.15.	Construct a quadrilateral ABCD in which AB = 4.5cm, BC = 4 cm, CD = 6.5 cm, DA = 3 cm and BD = 6.5 cm.
Q.16.	Represent the following rational numbers on a number line: $\frac{-2}{3}, \frac{-1}{6}, 0, 1, \frac{2}{6}$
Q.17.	Construct a rhombus whose diagonals are 7.8 cm and 6.2 cm
Q.18.	Name the property: a) $\frac{7}{8} + \frac{4}{5} = \frac{4}{5} + \frac{7}{8}$ b) $\frac{4}{9} \times 1 = \frac{4}{9}$ c) $\left(\frac{6}{11} + \frac{4}{5}\right) + \frac{3}{11} = \frac{6}{11} + \left(\frac{4}{5} + \frac{3}{11}\right)$

Section D : Long Answer Questions (Type – 2)

Q.19.	If $x = \frac{-3}{5}$, $y = \frac{1}{4}$, $z = \frac{5}{6}$ verify a) $x \times y = y \times x$ b) $x \times (y + z) = (x \times y) + (x \times z)$
Q.20	Find 6 rational numbers between $\frac{-1}{6}$ and $\frac{-2}{3}$
Q.21	Construct a quadrilateral PQRS in which $\angle Q = 45^\circ$, $\angle R = 90^\circ$, $QR = 5\text{ cm}$, $PQ = 4\text{ cm}$ and $RS = 3\text{ cm}$
Q.22.	The angles of a pentagon are $x, x - 5^\circ, x + 10^\circ, 2x + 15^\circ$ and $2x + 30^\circ$. Find all the angles. <p style="text-align: right;">Ans: $70^\circ, 65^\circ, 80^\circ, 155^\circ, 170^\circ$</p>
Q.23.	Use distributive property and find: $\frac{-2}{3} \times \frac{-3}{7} + \frac{5}{2} \times \frac{5}{6} - \frac{-3}{7} \times \frac{1}{6}$ <p style="text-align: right;">Ans: $\frac{205}{84}$</p>
Q.24.	Evaluate: $\frac{6^3 \times 5^4 \times 3^2}{10^2 \times 81}$ <p style="text-align: right;">Ans: 150</p>
Q.25.	Find the value using laws of exponents: a) $\frac{7^5}{7^3}$ b) $(5)^{-4} \times (3)^{-4}$ c) $-\left(\frac{-8}{9}\right)$ d) $[(13)^2]^{-3}$
	<p style="text-align: center;">*****</p>