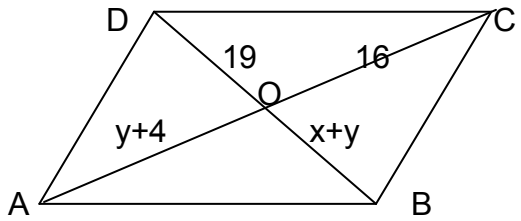
INDIAN SCHOOL MUSCAT
MIDDLE SECTION
FIRST PERIODIC TEST 2019-20
CLASS 8 – MATHEMATICS – ANSWER KEY (SET A)

Q.NO 1	ANSWERS
(a)	Find the product of the rational number $\frac{-3}{8}$ with its reciprocal. Ans.1
(b)	PQRS is a square, its diagonals PR = 12cm and QS = (2a +2)cm ,Find the value of QS. Ans.12cm
(c)	Name the property used in the statement $\frac{-5}{9}\times\left(\frac{4}{15}\times\frac{-9}{8}\right) = \left(\frac{-5}{9}\times\frac{4}{15}\right)\times\frac{-9}{8}$ Ans. Associative property of multiplication for Rational Numbers
(d)	What is the sum of the exterior angles of a regular polygon if its each interior angle is 60^0 ? Ans. 360^0
Q.NO 2	**ANSWERS**
(a)	Find the number of sides of a regular polygon whose each interior angle has a measure of 135^0 . Ans. Each exterior = 45^0 Number of sides = 8
(b)	Find four rational numbers between $\frac{-2}{3}$ and $\frac{-4}{5}$. Ans. Any four rational numbers.
(c)	Two adjacent angles of a parallelogram are $(2y)^0$ and $(4y)^0$. Find all angles of the parallelogram. Ans. $2y + 4y = 180^0$ $y = 30^0$ Angles are… 60^0 , 120^0 , 60^0, 120^0
(d)	Simplify : $\frac{-12}{20} + \left(\frac{2}{-5}\div\frac{4}{3}\right)$ = Ans. $\frac{-12}{20} + \left(\frac{-2}{5}\times\frac{3}{4}\right)$ $\frac{-12}{20} + \frac{-6}{20} = \frac{-18}{20} = \frac{-9}{10}$
(e)	Find the number of diagonals for an octagon. Ans. n= 8 Diagonals = n(n-3) / 2 = 8 x 5 /2 = Number of diagonals = 20
Q.NO 3	Simplify using suitable property. $\left(\frac{-5}{3}\times\frac{8}{7}\right)$ -- $\left(\frac{1}{14}\times\frac{5}{3}\right)$ + $\left(\frac{-5}{3}\times\frac{2}{7}\right)$ Ans. $\left(\frac{5}{3}\times\frac{-8}{7}\right)$ -- $\left(\frac{1}{14}\times\frac{5}{3}\right)$ + $\left(\frac{5}{3}\times\frac{-2}{7}\right)$ = $\frac{5}{3}\times\left(\frac{-8}{7}-\frac{1}{14}+\frac{-2}{7}\right)$ = $\left(\frac{5}{3}\times\frac{-21}{14}\right)$ = $\left(\frac{-5}{2}\right)$
Q.NO 4	a) In a parallelogram ABCD , the diagonals meet at O, AO = y+4 and CO = 16cm BO = x +y and OD = 19cm. Find the value of x,y.Give reason.  Ans. y+4 = 16 y = 12cm x+y = 19 x+12 =19 x= 7cm Reason : In a parallelogram diagonals bisect each other. b) Name the quadrilateral whose diagonals are unequal but are perpendicular bisectors of each other. Ans.Rhombus