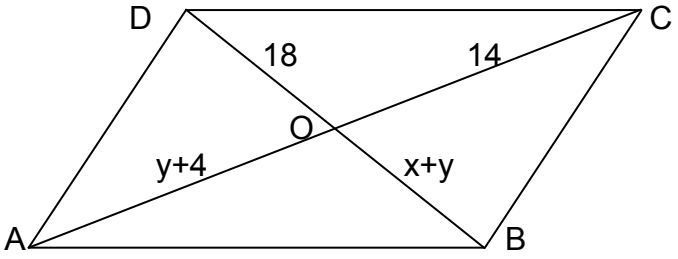
# INDIAN SCHOOL MUSCAT
## MIDDLE SECTION
## FIRST PERIODIC TEST 2019-20
## CLASS 8 – MATHEMATICS – ANSWER KEY ( SET B )

| Q.NO 1 | ANSWERS |
|---|---|
| (a) | What is the sum of the exterior angles of a regular polygon if its each interior angle is $80^0$ ? Ans. $360^0$ |
| (b) | 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 |
| (c) | PQRS is a square, its diagonals PR = 14cm and QS = (2a - 2)cm ,Find the value of QS Ans. 14cm |
| (d) | Find the product of the rational number $\frac{-5}{9}$ with its reciprocal. Ans.1 |
| Q.NO 2 | ANSWERS |
| (a) | Simplify $\frac{-9}{7}\times\left(\frac{4}{18}+\frac{-3}{9}\right)$ Ans. $\frac{-9}{7}\times\left(\frac{4}{18}+\frac{-6}{18}\right) = \frac{-9}{7}\times\left(\frac{-2}{18}\right) = 1/7$ |
| (b) | Find four rational numbers between $\frac{-1}{4}$ and $\frac{-1}{5}$ .Ans. Any four rational numbers |
| (c) | Two adjacent angles of a parallelogram are $(2m)^0$ and $(4m)^0$ . Find all angles of the parallelogram. Ans. $2m + 4m = 180^0$ $m = 30^0$ Angles are… $60^0$ , $120^0$ , $60^0$, $120^0$ |
| (d) | Find the number of sides of a regular polygon whose each interior angle has a measure of $144^0$ .Ans. Each exterior = $36^0$ Number of sides = 10 |
| (e) | Find the number of diagonals for a heptagon. Ans. n= 7 Diagonals = n(n-3) / 2 = 7 x 4 /2 Number of diagonals = 14 |
| Q.NO 3 | Simplify using suitable property. $\left(\frac{6}{7}\times\frac{8}{6}\right)$ -- $\left(\frac{7}{3}\times\frac{-6}{7}\right)$ + $\left(\frac{6}{7}\times\frac{1}{3}\right)$ Ans. $\left(\frac{6}{7}\times\frac{8}{6}\right)$ -- $\left(\frac{-7}{3}\times\frac{6}{7}\right)$ + $\left(\frac{6}{7}\times\frac{1}{3}\right)$ = $\frac{6}{7}\times\left(\frac{8}{6}+\frac{7}{3}+\frac{1}{3}\right)$ = $\left(\frac{6}{7}\times\frac{24}{6}\right)$ = $\left(\frac{24}{7}\right) = 3\frac{3}{7}$ |
| Q.NO 4 | a) In a parallelogram ABCD , the diagonals meet at O, AO = y+4 and CO = 14cm BO = x +y and OD = 18cm. Find the value of x,y, Give reasons.   Ans.y+4 = 14 y = 10cm x+y = 18 x+10 =18 x= 8cm Reason : In a parallelogram diagonals bisect each other. b) Name the quadrilateral whose diagonals are equal but are not perpendicular to each other. Ans.Rectangle |