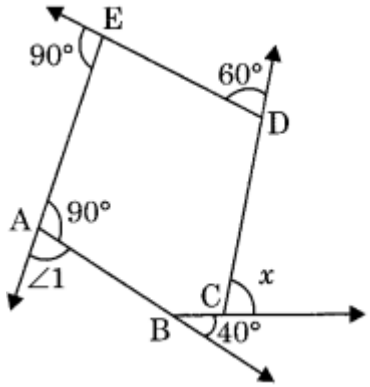
NAME		ROLL NO	

	INDIAN SCHOOL MUSCAT MIDDLE SECTION FIRST PERIODIC TEST 2022 – 23	
	MATHEMATICS (SET-A)	Code: MZM01
CLASS-VIII		Time Allotted: 40 Minutes
22.05.2022		Max. Marks: 20

General Instructions.
1.The question paper comprises of **three sections A, B**, and **C**. You have to attempt all the sections.
2.**All** the questions are **compulsory**.
3.**All the answers should be written in the answer sheet provided.**

Q.NO1	**SECTION A - FILL IN THE BLANKS ('1' MARK EACH) – TOTAL – 04 MARKS**	Marks
(a)	There are **UNCOUNTABLE** rational numbers between $\frac{-2}{7}$ and $\frac{6}{7}$.	1
(b)	The sum of $\frac{5}{8}$ and its additive inverse is **0**	½ + ½
(c)	Measure of each exterior angle of 12-sided regular polygon = $360^0 \div 12 = 30^0$	½ + ½
(d)	The sum of the interior angles of a nonagon $= (9-2)\times 180^0 = 1260^0$	½ + ½

Q.NO2	**SECTION B – ('2' MARKS EACH) – TOTAL – 10 MARKS**	Marks
(a)	How many diagonals are there for a polygon with 13 sides? **Number of diagonals = 13(13 – 3) / 2 = (13 × 10) /2 =13×5 = 65**	½ + ½ +½ + ½
(b)	Find the number of sides for a regular polygon with each interior angle 160^0. **Measure of each exterior angle = $180^0 - 160^0 = 20^0$** **Number of sides = $360^0 \div 20^0 = 18$**	1 +1
(c)	Find the multiplicative inverse of $\left(\frac{-7}{8}+\frac{5}{6}\right)$. $\left(\frac{-7}{8}+\frac{5}{6}\right)$. **LCM= 24** $= \left(\frac{-21}{24}+\frac{20}{24}\right) = \frac{-1}{24}$. **MULTIPLICATIVE INVERSE = – 24**	1 +1
(d)	The product of two rational numbers is $\frac{-9}{10}$. If one of the rational numbers is $\left(\frac{2}{5}\times\frac{3}{4}\right)$ then find the other rational number.	1 + ½ + ½

	Ans: $\frac{-9}{10} \div \left(\frac{2}{5} \times \frac{3}{4}\right) = \frac{-9}{10} \div \frac{3}{10} = -3$	
(e)	 Find the value of 'x'. Ans: /1 = $180^0 - 90^0 = 90^0$ (linear pair) $90^0 + 90^0 + 40^0 + 60^0 + x = 360^0$ (Sum of the exterior angles of a polygon is 360^0) $280^0 + x = 360^0$ $X = 360^0 - 280^0 = 80^0$	½ + ½ +½ + ½

Q.NO	**SECTION – C ('3' MARKS EACH) – TOTAL – 06 MARKS**	Marks
3.	Simplify $\frac{-3}{7} \times \frac{5}{12} + \frac{11}{12} \times \frac{-3}{7} - \frac{-3}{7}$ using suitable properties. $\frac{-3}{7} \times \left(\frac{5}{12} + \frac{11}{12} - 1\right)$ $= \frac{-3}{7} \times \left(\frac{5}{12} + \frac{11}{12} - \frac{12}{12}\right)$ $= \frac{-3}{7} \times \frac{4}{12}$ $= \frac{-1}{7}$	1 + 1+1
4.	The angles of a pentagon are in the ratio 3 : 4 : 5 : 5 : 10. Find the largest and the smallest angles of the pentagon. **Sum of the interior angles of a pentagon = (5 – 2) × 180^0 = 540^0** **3x + 4x + 5x + 5x + 10x = 540^0** **27x = 540^0** **X = $540^0 \div 27 = 20^0$** **Largest angle =10x = 10 × 20^0 = 200^0** **The smallest angle = 3x = 3 × 20^0 = 60^0**	1 + 1 + ½ + ½

End of Answer Key.