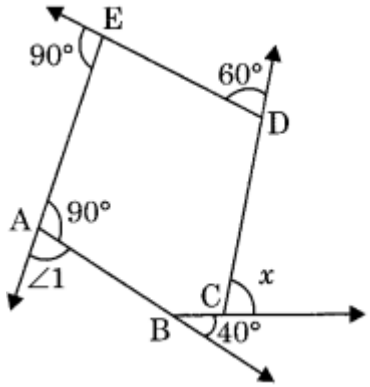
NAME		ROLL NO	

	INDIAN SCHOOL MUSCAT MIDDLE SECTION FIRST PERIODIC TEST 2022 – 23	
	MATHEMATICS (SET-B)	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 $\frac{-3}{8}$ and $\frac{3}{4}$.	1
(b)	The sum of the interior angles of a polygon with 12 sides **= (12 –2)×180^0 = 1800^0**	½ + ½
(c)	Measure of each exterior angle of 20-sided regular polygon **= 360^0 ÷ 20 = 18^0**	½ + ½
(d)	The product of $\frac{-5}{11}$ and its multiplicative inverse is **1**	½ + ½

Q.NO2	**SECTION B – ('2' MARKS EACH) – TOTAL – 10 MARKS**	Marks
(a)	Find the number of sides for a regular polygon with each interior angle 135^0. **Measure of each exterior angle = 180^0 – 135^0 = 45^0** **Number of sides = 360^0 ÷ 45^0 = 8**	1 + 1
(b)	How many diagonals are there for a polygon with 11 sides? **Number of diagonals = 11(11 – 3) / 2 = (11 × 8) /2 =11×4 = 44**	½ + ½ +½ + ½
(c)	Find the additive inverse of $\left(\frac{-7}{15} \times \frac{5}{14}\right)$. $\left(\frac{-7}{15} \times \frac{5}{14}\right) = \left(\frac{-1}{3} \times \frac{1}{2}\right) = \frac{-1}{6}$ **ADDITIVE INVERSE OF $\frac{-1}{6}$ IS $\frac{1}{6}$**	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.	

	Ans: $\frac{-9}{10} \div \left(\frac{2}{5} \times \frac{3}{4}\right) = \frac{-9}{10} \div \frac{3}{10} = -3$	1 +½+ ½
(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.	The angles of a pentagon are in the ratio 2 : 3 : 5 : 7 : 10. Find the largest and the smallest angles of the pentagon. **of the interior angles of a pentagon = $(5 - 2) \times 180^0 = 540^0$** **$2x + 3x + 5x + 7x + 10x = 540^0$** **$27x = 540^0$** **$X = 540^0 \div 27 = 20^0$** **Largest angle $= 10x = 10 \times 20^0 = 200^0$** **The smallest angle $= 2x = 2 \times 20^0 = 40^0$**	1 + 1 + ½ + ½
4.	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

End of Answer Key.