

NEW-ERA PUBLIC SCHOOLCLASS: 7thTERM: 2ndSUB: MATHEMATICSMAX. MARKS: 80SESSION: 2021PART-AAttempt any five (5) Questions:

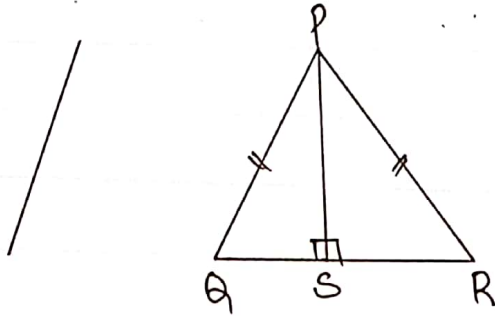
- Q1: In a examination 7% of the candidates failed and 1116 passed. How many candidates did appear in the examination?
- Q2: Find the interest and the amount when:
 $P = ₹14000$, $T = 3 \text{ years}$, $R = 15\% \text{ p.a}$
- Q3: Mala has a collection of 50 bangles. She has 22 gold bangles and 28 silver bangles. Find the percentage of gold and silver bangles?
- Q4: 20 women reap a field in 60 days. For reaping the same field in 15 days, how many women should be engaged?
- Q5: Find the ratio in the simplest form:
 a) 10 kg to 240g b) 2 minute to 100 seconds.
- Q6: If the height of a plant has increased from 8cm to 10cm, what is the percentage increase in the height?
- Q7: In how many years will a sum of money double itself at 10% p.a interest?

→ $(5 \times 7 = 35)$.PART-BAttempt any five (5) Questions:

(2)

Q1: There is a missing number in the following data having range 11 and mean 8. What is the missing number?
8, 3, 9, 7, 14, ...

Q2: If $\triangle PQR$ is an isosceles triangle such that $PQ = PR$. Then prove that the altitude PS from P on QR bisects QR .



Q3: The sale of English and Hindi books in the four consecutive years at a book store are given below. I make a double bar graph.

Years	2005	2006	2007	2008
English	350	400	450	650
Hindi	550	600	300	600

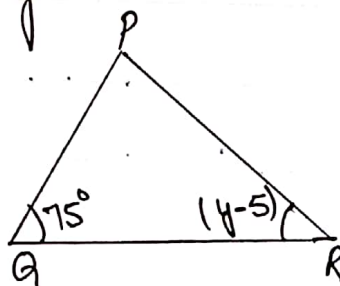
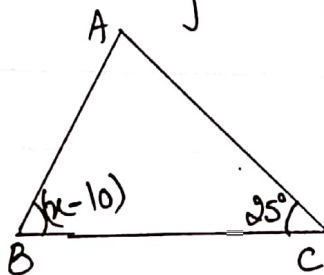
Q4: Prove that the three angles of an equilateral triangle are equal.

Q5: Find the mode and median of following data:

a) 9, 7, 8, 11, 12, 9, 5, 8, 12, 10, 9

b) 13, 16, 12, 14, 19, 12, 14, 13, 14, 14

Q6: In the given figure, the triangles are congruent. Find the value of x and y .



Q7: Find the Range and Mean of following data:

3

35, 15, 0, 40, 20, 25, 45, 10, 30, 5, 15.

$$\rightarrow (5 \times 7 = 35).$$

PART-C

Fill in the blanks:

- 1) 60% of 600 is _____
- 2) When $Sp > cp$, there is _____
- 3) Probability of an event lies between 0 to 1
- 4) Simplest form of 44% is _____
- 5) _____ is the number in the middle when they are arranged in order.
- 6) There are 4 blue marbles, 2 red marbles and 6 white marbles. What will be the probability of a red marble. _____
- 7) Amount = Principal + _____
- 8) Write $\frac{3}{4}$ as percent _____
- 9) Value of n is $n\% = \frac{19}{25} = \frac{76}{100}$
- 10) 1000% = _____

$$\rightarrow (10 \times 1 = 10)$$

Good-Luck 😊