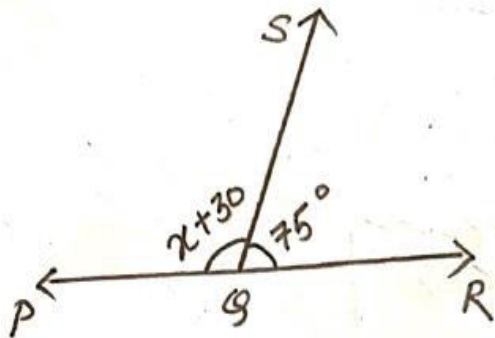


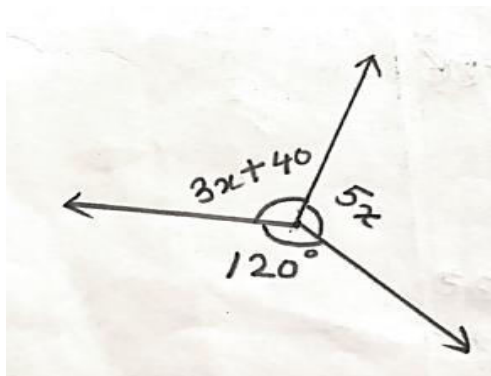
**Q1. Do as directed:****[10]**

1. Solve:  $\frac{5x}{7} = 40$

2. If  $\angle PQS = x+30$ ,  $\angle SQR = 75^\circ$ . Find  $x$ .3. Express the ratio in simplest form  $2\frac{1}{3} : 3\frac{1}{2} : 1\frac{1}{4}$ 

4. Find the perimeter of square whose side is 12.4 cm.

5. Find the fourth proportional to 5, 15 and 4.

**Q2A.** Find the value of  $x$  in the given figure**[3]****Q2B.** A train travels 700 m in 35 seconds. What is its speed in km/h?**[3]****Q2C.** The age of a man is 27 years more than the age of his son. If the sum of their ages is 47 years, find the age of son and his father.**[4]****Q3A.** A pole of length 165cm is divided into 2 parts such that their lengths are in ratio 7:8. Find the length of each part of pole.**[3]**

**Q3B.** Calculate the mean proportional of 15 and 60. Also, find the ratio of 15 to 60. **[3]**

**Q3C.** The length and breadth of a rectangular hall is 24m and 18m respectively. A square carpet of each side 20 m is to be laid on its floor. Find the area of the floor which will remain bare. **[4]**

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