

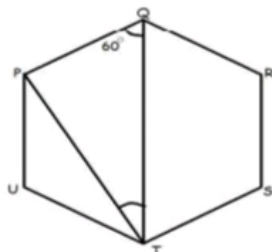
Choose the correct option:

1x3=3

- 1) Which of the following is the product of $\frac{7}{8}$ and $-\frac{4}{21}$?
 - a. $-\frac{1}{6}$
 - b. $\frac{1}{12}$
 - c. $-\frac{16}{63}$
 - d. $-\frac{147}{16}$
- 2) If a number is doubled then which of the following is a correct statement?
 - a. Its cube is two times the cube of the given number.
 - b. Its cube is three times the cube of the given number.
 - c. Its cube is six times the cube of the given number.
 - d. Its cube is eight times the cube of the given number.
- 3) An article is at 10% more than the CP. If discount of 10% is allowed then which of the following is right?
 - a. 1% gain
 - b. 1% loss
 - c. no gain no loss
 - d. 1.1% loss

Answer the following questions.

- 4) The numerator of a fraction is 2 less than the denominator. If one is added to its denominator, it becomes $\frac{1}{2}$ find the fraction. (2)
- 5) In the given figure PQRSTU is a regular hexagon. If $\angle PQT = 60^\circ$, find $\angle PTQ$. (2)



- 6) Number of workers in a factory increases by 20% every year. If there are 8000 workers in the factory, find the number of workers in factory after 2 years. (3)

- 7) The diagonals of a rhombus ABCD intersect at Q. If $\angle ADQ = 40^\circ$

Find $\angle QBC$ and $\angle QDC$