1. Fill in the blanks:
a) Two angles are said to be congruent if they have equal $\qquad$ .
b Among two congruent angles, one has a measure of $70^{\circ}$, the measure of other angle is $\qquad$ .
c) If $\triangle \mathrm{ABC} \cong \triangle \mathrm{PQR}$ then $\overline{A B}$ corresponds to $\qquad$ .
d) Two line segments are congruent if they have equal $\qquad$ .
e) If two circles are congruent, they have equal $\qquad$ .
2. Two circles are congruent to each other. If the radius of one is 6.2 cm , find the diameter of the other.
3. In the figure, name the angle which is congruent to $\angle P O R$.

4.Two squares $A B C D$ and PQRS are congruent. If perimeter of square $A B C D$ is 56 cm Find the length of $P Q$.
4. If $\triangle A B C \cong \triangle R P Q, \angle B=80^{\circledR}$ and $\angle R=70^{\circledR}$, find the remaining two angles of both the triangles.
5. If $\triangle A B C \cong \triangle X Y Z$, write the parts of $\Delta X Y Z$ that correspond to
a) $\angle B$
b) $\overline{Y Z}$
c) $\angle \mathrm{C}$
d) $\overline{A C}$
6. When $\triangle P Q R \cong \triangle A B C$ under the correspondence $\triangle P Q R \leftrightarrow \triangle A B C$, write all the corresponding congruent parts of the triangle.
7. Give any two real-life examples for congruent shapes.
8. Write true or false
i) Two line segments are congruent if they are parallel.
ii) Two right angles are always congruent.
iii) If two triangles are equal in area they are congruent.
iv) Two congruent figures fit each other exactly, when one is put over other.
v) If two triangles are congruent then their corresponding sides and their corresponding angles are equal.
9. Given two triangles $A B C$ and $P Q R$, how many matchings are possible between them?
