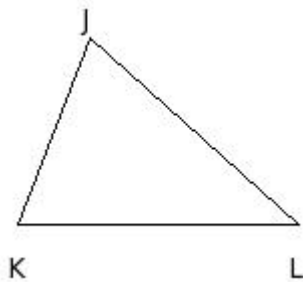


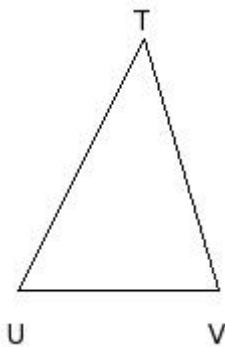
EduSahara™ Learning Center Assignment**Grade : Class VI, ICSE****Chapter : Triangles****Name : Triangle Concepts****Licensed To : Teachers and Students for non-commercial use**

1. The side opposite to the vertex J



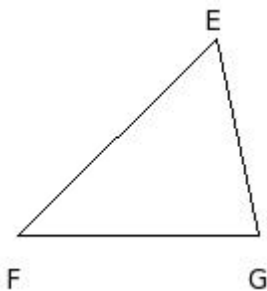
- (i) \overline{LJ} (ii) \overline{JN} (iii) \overline{JK} (iv) \overline{MK} (v) \overline{KL}

2. The side opposite to the vertex U



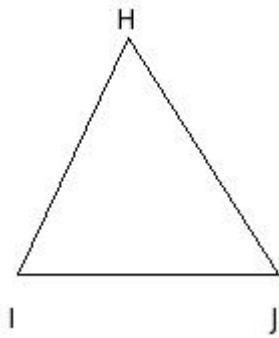
- (i) \overline{VT} (ii) \overline{TX} (iii) \overline{UV} (iv) \overline{TU} (v) \overline{WU}

3. The side opposite to the vertex G



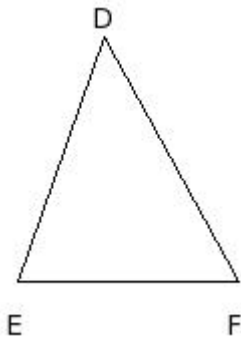
- (i) \overline{EI} (ii) \overline{FG} (iii) \overline{EF} (iv) \overline{HF} (v) \overline{GE}

4. The vertex opposite to the side \overline{IJ}



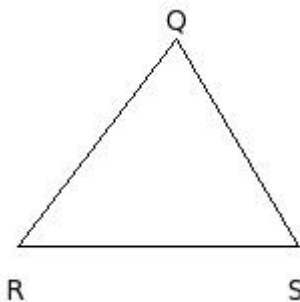
(i) L (ii) I (iii) H (iv) \overline{JK}

5. The vertex opposite to the side \overline{FD}



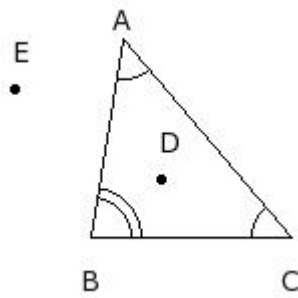
(i) E (ii) D (iii) \overline{FG} (iv) H

6. The vertex opposite to the side \overline{QR}



(i) S (ii) Q (iii) \overline{ST} (iv) R

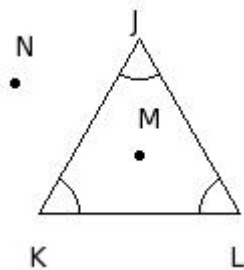
7. The sides of the triangle are



(i) $\overline{BC}, \overline{CA}, \overline{AB}$ (ii) $\overline{DE}, \overline{EC}, \overline{CD}$ (iii) $\overline{CD}, \overline{DB}, \overline{BC}$

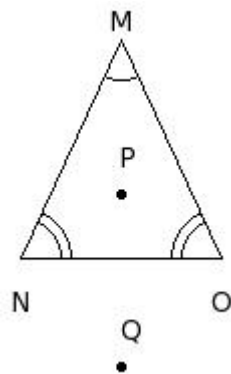
(iv) $\overline{CE}, \overline{EB}, \overline{BC}$ (v) $\overline{BD}, \overline{DA}, \overline{AB}$

8. The name of the triangle is



(i) $\triangle LMN$ (ii) $\triangle KLM$ (iii) $\triangle JKL$ (iv) $\triangle JKM$ (v) $\triangle KLN$

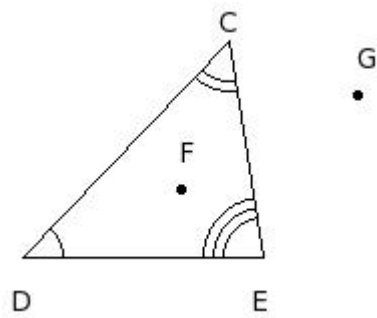
9. The angles of the triangle are



(i) $\angle N, \angle O, \angle P$ (ii) $\angle M, \angle N, \angle O$ (iii) $\angle M, \angle N, \angle P$

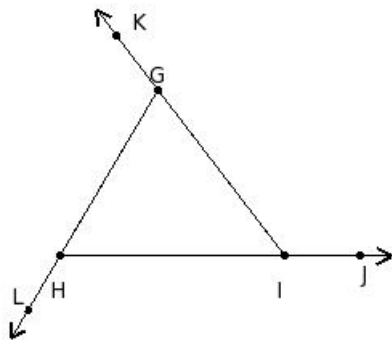
(iv) $\angle O, \angle P, \angle Q$ (v) $\angle N, \angle O, \angle Q$

10. The vertices of the triangle are



- (i) C, D, E (ii) E, F, G (iii) D, E, F (iv) D, E, G (v) C, D, F

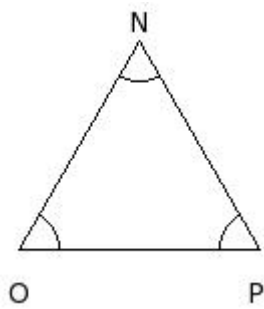
11. The exterior angles of the triangle are



- (i) $\angle IJG$, $\angle JGH$, $\angle KHJ$
 (ii) $\angle JIG$, $\angle KGH$, $\angle LHI$
 (iii) $\angle JKH$, $\angle KHI$, $\angle LIK$
 (iv) $\angle LKI$, $\angle MIJ$, $\angle NJK$
 (v) $\angle KJH$, $\angle LHI$, $\angle MIJ$

12. Consider the following figure. State which of the following statements are true

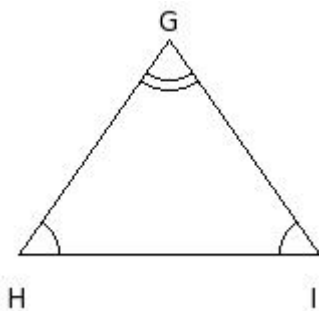
- a) $\overline{OP} = \overline{PN}$
 b) $\overline{OP} \neq \overline{PN}$
 c) $\overline{NO} \neq \overline{OP}$
 d) $\overline{NO} = \overline{OP}$
 e) $\overline{PN} \neq \overline{NO}$
 f) $\overline{PN} = \overline{NO}$



- (i) {a,d,f} (ii) {c,a,d} (iii) {e,b,f} (iv) {c,d} (v) {b,a}

13. Consider the following figure. State which of the following statements are true

- a) $\overline{HI} = \overline{IG}$
 b) $\overline{HI} \neq \overline{IG}$
 c) $\overline{IG} = \overline{GH}$
 d) $\overline{GH} \neq \overline{HI}$
 e) $\overline{GH} = \overline{HI}$
 f) $\overline{IG} \neq \overline{GH}$



- (i) {e,c} (ii) {f,a,d} (iii) {b,c,d} (iv) {a,b} (v) {e,b,c}

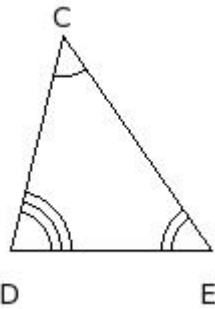
14. Consider the following figure. State which of the following statements are true

- a) $\overline{DE} \neq \overline{EC}$
 b) $\overline{EC} \neq \overline{CD}$
 c) $\overline{EC} = \overline{CD}$

d) $\overline{DE} = \overline{EC}$

e) $\overline{CD} \neq \overline{DE}$

f) $\overline{CD} = \overline{DE}$



- (i) {f,c,e} (ii) {a,b,e} (iii) {d,a,b} (iv) {d,b} (v) {c,a}

15. Consider the following figure. State which of the following statements are true

a) $\angle G \neq \angle E$

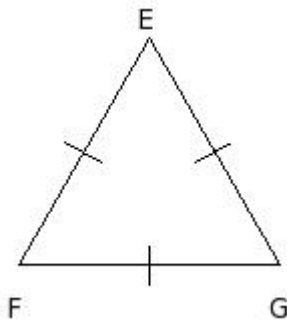
b) $\angle E = \angle F$

c) $\angle F \neq \angle G$

d) $\angle G = \angle E$

e) $\angle F = \angle G$

f) $\angle E \neq \angle F$



- (i) {c,d} (ii) {a,b} (iii) {c,b,d} (iv) {b,d,e} (v) {f,a,e}

16. Consider the following figure. State which of the following statements are true

a) $\angle E \neq \angle F$

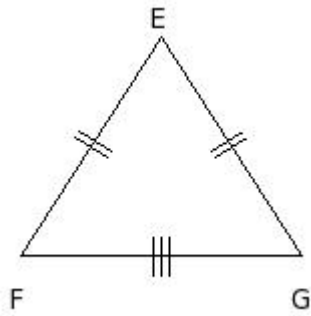
b) $\angle F \neq \angle G$

c) $\angle G = \angle E$

d) $\angle E = \angle F$

e) $\angle F = \angle G$

f) $\angle G \neq \angle E$



- (i) {d,b,f} (ii) {a,e,f} (iii) {c,e} (iv) {b,a} (v) {c,a,e}
-

17. Consider the following figure. State which of the following statements are true

a) $\angle C \neq \angle D$

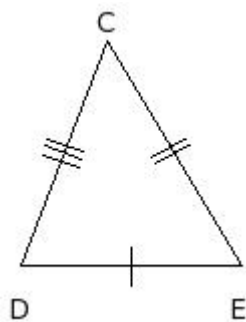
b) $\angle D \neq \angle E$

c) $\angle D = \angle E$

d) $\angle C = \angle D$

e) $\angle E \neq \angle C$

f) $\angle E = \angle C$



- (i) {c,a} (ii) {f,c,e} (iii) {a,b,e} (iv) {d,a,b} (v) {d,b}
-

Assignment Key

- 1) (v)
- 2) (i)
- 3) (iii)
- 4) (iii)
- 5) (i)
- 6) (i)
- 7) (i)
- 8) (iii)
- 9) (ii)
- 10) (i)
- 11) (ii)
- 12) (i)
- 13) (iii)
- 14) (ii)
- 15) (iv)
- 16) (ii)
- 17) (iii)