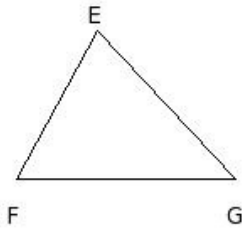
EduSahara™ Assignment

Name : Triangle Concepts

Chapter : Triangles

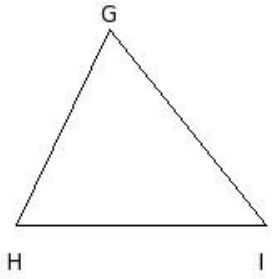
Grade : ICSE Grade VI

1. The side opposite to the vertex E



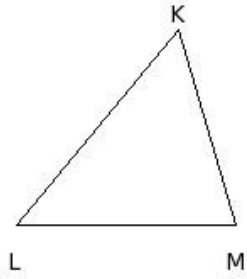
(i) $\overline{EI}$ (ii) $\overline{GE}$ (iii) $\overline{HF}$ (iv) $\overline{FG}$ (v) $\overline{EF}$

2. The side opposite to the vertex H



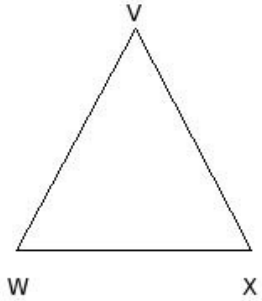
(i) $\overline{GK}$ (ii) $\overline{HI}$ (iii) $\overline{GH}$ (iv) $\overline{JH}$ (v) $\overline{IG}$

3. The side opposite to the vertex M



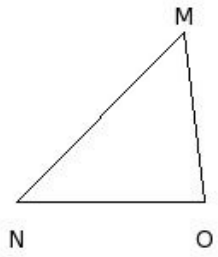
(i) $\overline{LM}$ (ii) $\overline{NL}$ (iii) $\overline{MK}$ (iv) $\overline{KO}$ (v) $\overline{KL}$

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



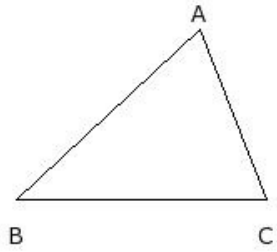
(i) Z (ii) $\overline{XY}$ (iii) V (iv) W

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



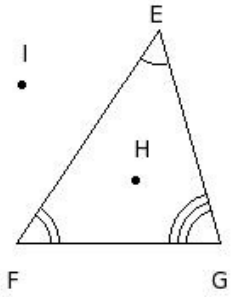
(i) $\overline{OP}$ (ii) Q (iii) M (iv) N

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



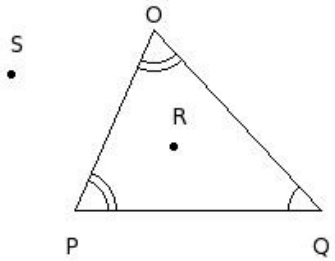
(i) $\overline{CD}$ (ii) A (iii) C (iv) B

7. The sides of the triangle are



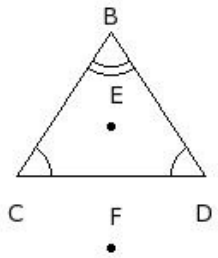
(i) $\overline{GI}, \overline{IF}, \overline{FG}$ (ii) $\overline{GH}, \overline{HF}, \overline{FG}$ (iii) $\overline{FH}, \overline{HE}, \overline{EF}$ (iv) $\overline{HI}, \overline{IG}, \overline{GH}$ (v) $\overline{FG}, \overline{GE}, \overline{EF}$

8. The name of the triangle is



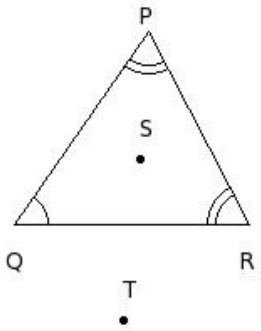
(i) △OPQ (ii) △PQR (iii) △PQS (iv) △OPR (v) △QRS

9. The angles of the triangle are



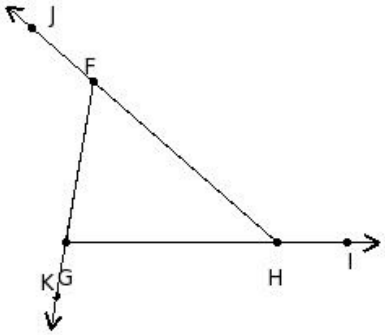
(i) ∠B , ∠C , ∠E (ii) ∠C , ∠D , ∠F (iii) ∠D , ∠E , ∠F (iv) ∠C , ∠D , ∠E (v) ∠B , ∠C , ∠D

10. The vertices of the triangle are



(i) P , Q , S (ii) R , S , T (iii) Q , R , T (iv) P , Q , R (v) Q , R , S

11. The exterior angles of the triangle are



(i) ∠KJH , ∠LHI , ∠MIJ (ii) ∠IHF , ∠JFG , ∠KGH (iii) ∠HIF , ∠IFG , ∠JGI (iv) ∠IJG , ∠JGH , ∠KHJ

(v) ∠JIG , ∠KGH , ∠LHI

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

a) $\overline{KI} = \overline{IJ}$

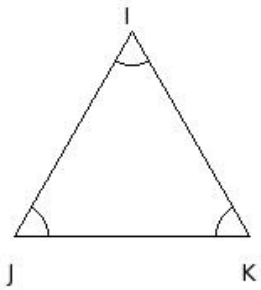
b) $\overline{IJ} \neq \overline{JK}$

c) $\overline{KI} \neq \overline{IJ}$

d) $\overline{IJ} = \overline{JK}$

e) $\overline{JK} = \overline{KI}$

f) $\overline{JK} \neq \overline{KI}$



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

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

a) $\overline{IJ} \neq \overline{JH}$

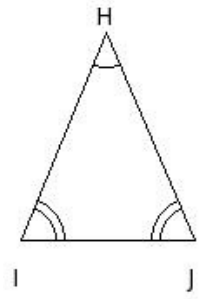
b) $\overline{JH} = \overline{HI}$

c) $\overline{HI} = \overline{IJ}$

d) $\overline{IJ} = \overline{JH}$

e) $\overline{HI} \neq \overline{IJ}$

f) $\overline{JH} \neq \overline{HI}$



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

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

a) $\overline{BC} \neq \overline{CA}$

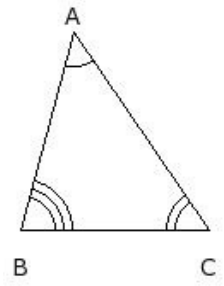
b) $\overline{AB} \neq \overline{BC}$

c) $\overline{CA} \neq \overline{AB}$

d) $\overline{BC} = \overline{CA}$

e) $\overline{AB} = \overline{BC}$

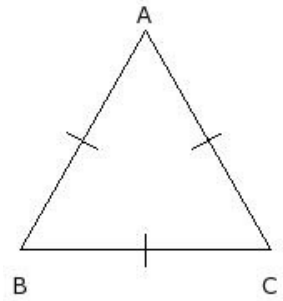
f) $\overline{CA} = \overline{AB}$



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

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

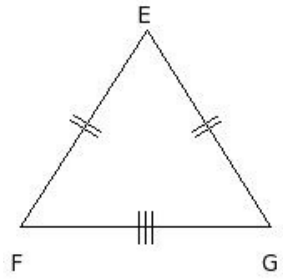
a) $\angle C \neq \angle A$
b) $\angle B \neq \angle C$
c) $\angle A \neq \angle B$
d) $\angle C = \angle A$
e) $\angle A = \angle B$
f) $\angle B = \angle C$



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

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

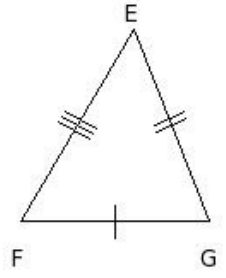
a) $\angle F = \angle G$
b) $\angle E \neq \angle F$
c) $\angle E = \angle F$
d) $\angle G = \angle E$
e) $\angle G \neq \angle E$
f) $\angle F \neq \angle G$



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

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

a) $\angle G = \angle E$
b) $\angle G \neq \angle E$
c) $\angle E \neq \angle F$
d) $\angle F = \angle G$
e) $\angle E = \angle F$
f) $\angle F \neq \angle G$



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

Assignment Key

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