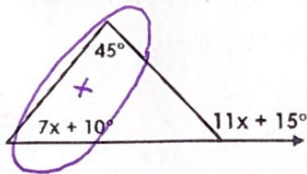
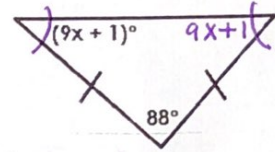


UNIT 2 QUIZ REVIEW

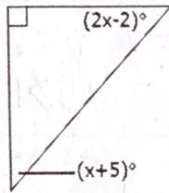
1. Solve for x
 $7x + 10 + 45 = 11x + 16$
 $7x + 55 = 11x + 16$
 $40 = 4x$
 $x = 10$



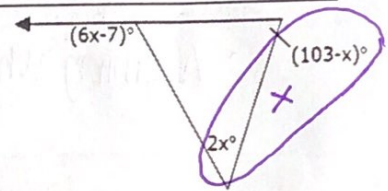
2. Solve for x
 $18x + 2 + 88 = 180$
 $18x + 90 = 180$
 $18x = 90$
 $x = 5$



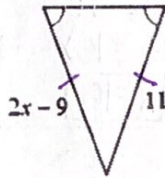
3. Solve for x
 $90 + 2x - 2 + x + 5 = 180$
 $3x + 93 = 180$
 $3x = 87$
 $x = 29$



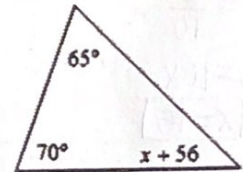
4. Solve for x
 $2x + 103 - x = 6x - 7$
 $103 + x = 6x - 7$
 $110 = 5x$
 $x = 22$



5. Solve for x
 $2x - 9 = 11$
 $2x = 20$
 $x = 10$

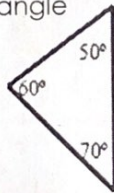


6. Solve for x
 $70 + 66 + x + 60 = 180$
 $x + 196 = 180$
 $x = -16$



7. Classify the triangle (by angle)

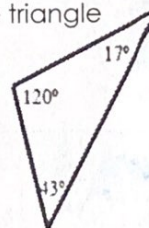
Acute Scalene



all \angle s are different + less than 90°

8. Classify the triangle (by angle)

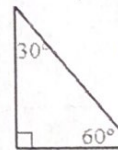
Obtuse Scalene



one $\angle > 90^\circ$
all \angle s different

9. Classify the triangle (by angle)

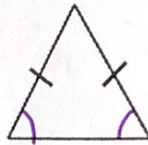
Right Scalene



one $\angle = 90^\circ$
all \angle s different

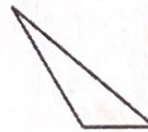
10. Classify the triangle (by side lengths)

Isosceles



11. Classify the triangle (by side lengths)

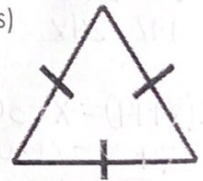
Scalene



No Sides Congruent

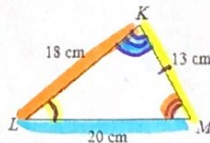
12. Classify the triangle (by side lengths)

Equilateral



13. List the angles from smallest to largest.

$\angle L, \angle M, \angle K$

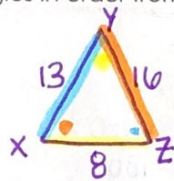


14. Can the following lengths make a triangle? 9, 14, 22
 Explain, why or why not?

$9 + 14 > 22$
 $23 > 22$ Yes $a + b > c$

15. For the triangle, list the angles in order from smallest to largest measure.

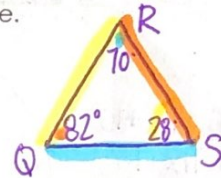
In $\triangle XYZ$
 $YZ = 16$
 $XZ = 8$
 $XY = 13$



$\angle Y, \angle Z, \angle X$

16. For the triangle, list the sides in order from shortest to longest measure.

In $\triangle QRS$
 $m\angle Q = 82^\circ$
 $m\angle R = 70^\circ$
 $m\angle S = 28^\circ$



$\overline{QR}, \overline{QS}, \overline{RS}$

17. Give an example of three side lengths that would not make a triangle. Explain how you know.

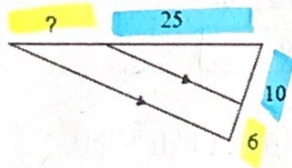
Anything where $a+b \leq c$ (ex. $a=3$ $b=8$ $c=13$)
 $3+8 > 13$

18. Solve for x

$$\frac{x}{25} = \frac{6}{10}$$

$$10x = 150$$

$$x = 15$$

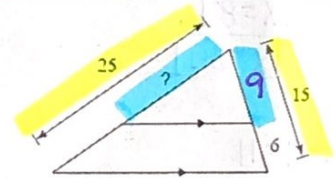


19. Solve for x

$$\frac{x}{25} = \frac{9}{15}$$

$$15x = 225$$

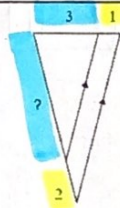
$$x = 15$$



20. Solve for x

$$\frac{x}{2} = \frac{3}{1}$$

$$6 = x$$

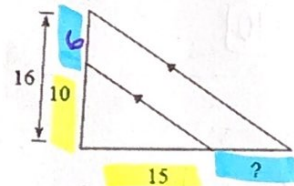


21. Solve for x

$$\frac{10}{6} = \frac{15}{x}$$

$$10x = 90$$

$$x = 9$$



22. Solve for x

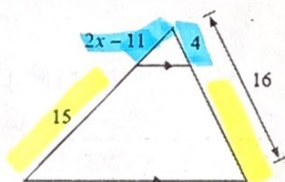
$$\frac{2x-11}{16} = \frac{4}{12}$$

$$12(2x-11) = 64$$

$$24x - 132 = 64$$

$$24x = 196$$

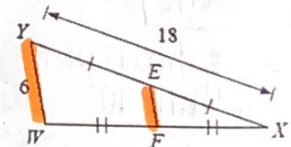
$$x = 8$$



23. Find the measure of EF

$$EF = 3$$

$$\frac{1}{2} \overline{YW} = \overline{EF}$$



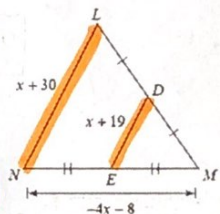
24. Find the measure of LN

$$2(x+19) = x+30$$

$$2x+38 = x+30$$

$$x = -8$$

$$LN = -8+30 = 22 = LN$$



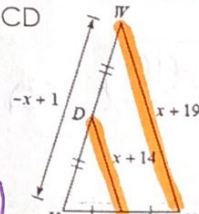
25. Find the measure of CD

$$2(x+14) = x+19$$

$$2x+28 = x+19$$

$$x = -9$$

$$CD = -9+14 = 5 = CD$$

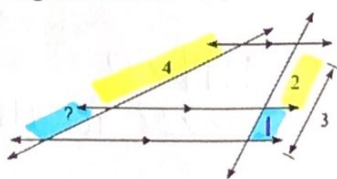


26 - 27. Find the missing measure.

$$\frac{4}{x} = \frac{2}{1}$$

$$2x = 4$$

$$x = 2$$



$$\frac{6}{12} = \frac{x}{28}$$

$$12x = 168$$

$$x = 14$$

