

Name Key

Date _____

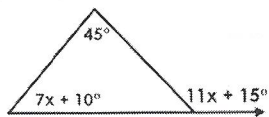
UNIT 2 QUIZ REVIEW

1. Solve for x

$$11x + 15 = 7x + 10 + 45$$

$$4x = 40$$

$$x = 10$$

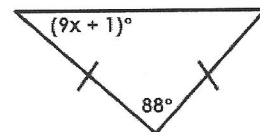


2. Solve for x

$$2(9x + 1) + 88 = 180$$

$$9x = 90$$

$$x = 10$$

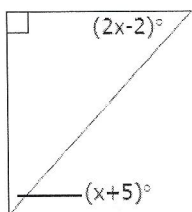


3. Solve for x

$$2x - 2 + x + 5 = 90$$

$$3x = 87$$

$$x = 29$$

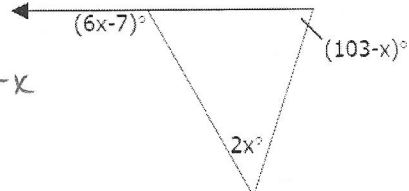


4. Solve for x

$$6x - 7 = 2x + 103 - x$$

$$5x = 110$$

$$x = 22$$

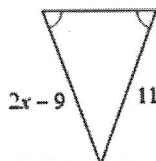


5. Solve for x

$$2x - 9 = 11$$

$$2x = 20$$

$$x = 10$$

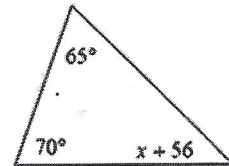


6. Solve for x

$$x + 56 + 70 + 65 = 180$$

$$x + 191 = 180$$

$$x = -11$$



7. Classify the triangle (by angle)

acute

8. Classify the triangle (by angle)

obtuse

9. Classify the triangle (by angle)

right

10. Classify the triangle (by side lengths)

isosceles

11. Classify the triangle (by side lengths)

scalene

12. Classify the triangle (by side lengths)

equilateral

13. List the angles from smallest to largest.

∠L
∠M
∠K

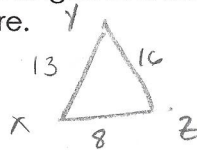
14. Can the following lengths make a triangle? 9, 14, 22

Explain, why or why not?

Yes, 9 + 14 > 22

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

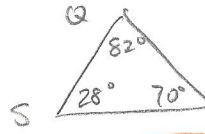
In $\triangle XYZ$
 $YZ = 16$
 $XZ = 8$
 $XY = 13$



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

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

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



$\overline{QR}, \overline{SQ}, \overline{SR}$

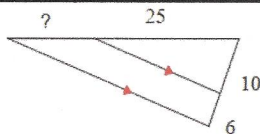
17. Give an example of three side lengths that would not make a triangle. Explain how you know.

$2, 8, 13$ $2+8$ is not greater than 13 , so it will not be a \triangle

18. Solve for x

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

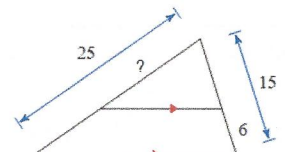
$x = 15$



19. Solve for x

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

$x = 15$



20. Solve for x

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

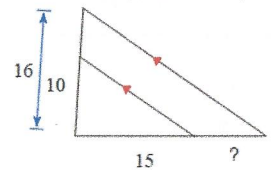
$x = 6$



21. Solve for x

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

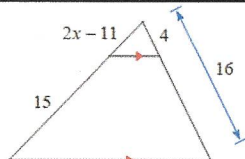
$x = 9$



22. Solve for x

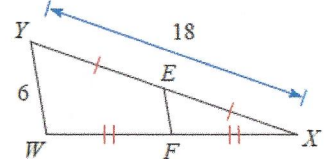
$$\frac{2x-11}{15} = \frac{4}{12}$$

$x = 8$



23. Find the measure of EF

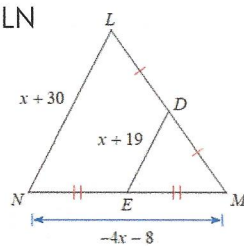
$EF = 3$



24. Find the measure of LN

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

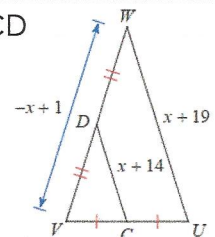
$x = -8$



25. Find the measure of CD

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

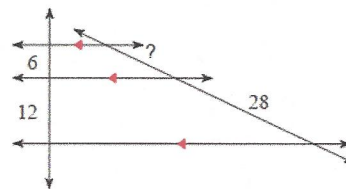
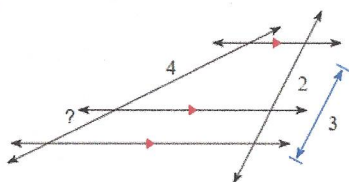
$x = -9$



26 – 27. Find the missing measure.

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

$x = 2$



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

$x = 14$