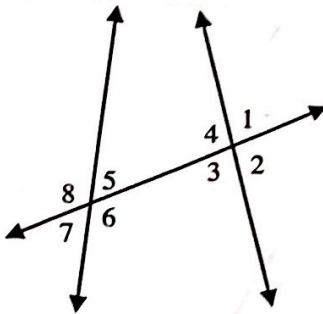


# Angle Unit Quiz Review

Name Keely

Block \_\_\_\_\_ Date \_\_\_\_\_

Refer to the sketch below to complete each statement at the right.



1.  $\angle 1$  and  $\angle$  7 are Alternate Exterior Angles.
2.  $\angle 2$  and  $\angle$  6 are Corresponding Angles.
3.  $\angle 3$  and  $\angle$  5 are Alternate Interior Angles.
4.  $\angle 5$  and  $\angle$  7 are Vertical Angles.
5.  $\angle 6$  and  $\angle$  7 or 5 are a Linear Pair.

Complete each statement.

- b 6. A Linear Pair of angles \_\_\_\_.
- a) are always congruent      b) are always supplementary      c) are always complementary
- b 7. If a transversal intersects two parallel lines, then the alternate exterior angles \_\_\_\_.
- a) are always congruent      b) are always supplementary      d) are always complementary
- a 8. If a transversal intersects two parallel lines then corresponding angles \_\_\_\_.
- a) are always congruent      b) are always supplementary      e) are always complementary
- a 9. The base angles in an isosceles triangle \_\_\_\_.
- a) are always congruent      b) are always supplementary      f) are always complementary
- a 10. If a transversal intersects two parallel lines, then the alternate interior angles \_\_\_\_.
- a) are always congruent      b) are always supplementary      g) are always complementary

For questions 11 through 13, refer to the diagram at the right.

a 11.  $\overline{JN}$  and  $\overline{LS}$  \_\_\_\_.

a. are parallel      b. are perpendicular      c. have no relationship

b 12.  $\overline{KL}$  and  $\overline{MR}$  \_\_\_\_.

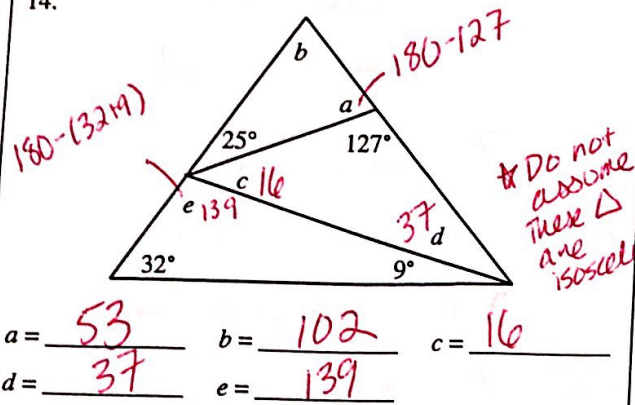
a. are parallel      b. are perpendicular      c. have no relationship

b 13.  $\overline{SL}$  and  $\overline{PS}$  \_\_\_\_.

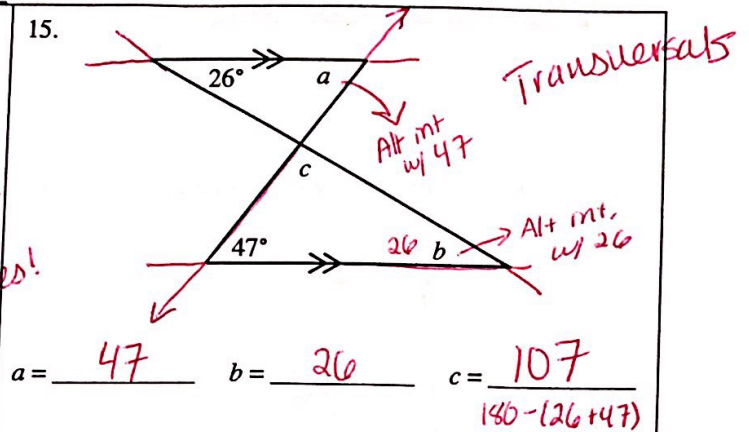
a. are parallel      b. are perpendicular      c. have no relationship

Find the measure of each angle indicated in the figures.

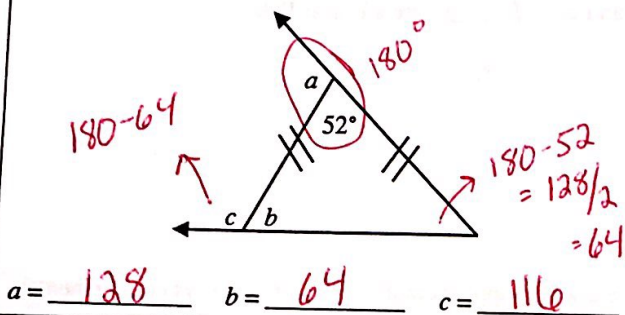
14.



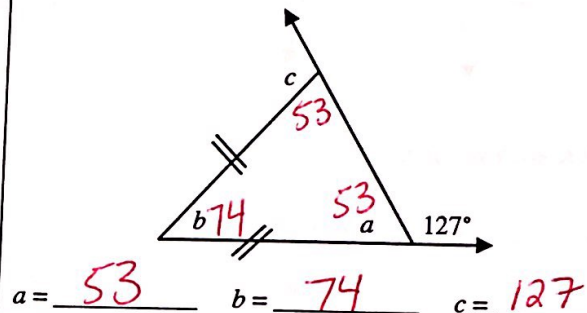
15.



16.

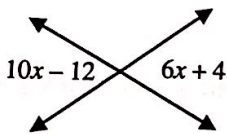


17.



Set up the equation and determine the value of x. Be sure to show work. Attach a piece of paper if necessary.

18.

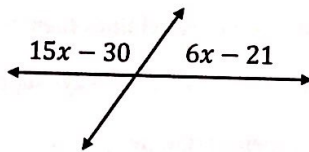


$$10x - 12 = 6x + 4$$

$$4x = 16$$

$x = 4$

19.



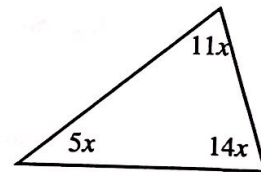
$$15x - 30 + 6x - 21 = 180$$

$$21x - 51 = 180$$

$$21x = 231$$

$x = 11$

20.



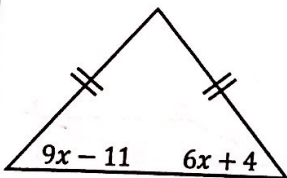
$$5x + 11x + 14x = 180$$

$$30x = 180$$

$$x = 6$$

$x = 6$

21.

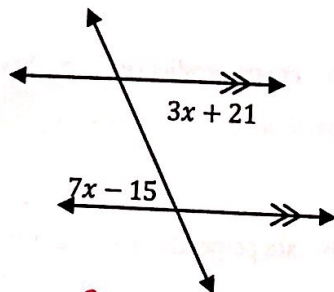


$$9x - 11 = 6x + 4$$

$$3x = 15$$

$x = 5$

22.

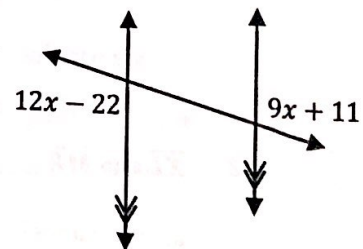


$$3x + 21 = 7x - 15$$

$$36 = 4x$$

$x = 9$

23.



$$9x + 11 = 12x - 22$$

$$33 = 3x$$

$x = 11$