Unit 2 Part 1 Review #2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

Standard: Parallel Lines Cut by a Transversal



6

8

5

7

Sesame St.

Boyce Rd.

3

1

2

Earle Rd

4

Using the image above, name multiple pairs of each of the following angles.

2. Vertical Angles: $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$

3. Corresponding Angles: $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$

4. Alternate Exterior Angles: $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$

5. Linear Pair: $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$

6. Same-side Interior Angles: $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$

7. Same-side Exterior Angles: $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$

8. Alternate Interior Angles: $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$ $∠\\_\\_\\_\\_\\_\\_$ and $∠\\_\\_\\_\\_\\_\\_$

Tell whether each pair of angles are either **supplementary** or **congruent**. Circle your answer.

9. Alternate Exterior Angles: supplementary congruent

10. Same-side Interior Angles: supplementary congruent

11. Vertical Angles: supplementary congruent

12. Alternate Interior Angles: supplementary congruent

13. Corresponding Angles: supplementary congruent

14. Linear Pairs: supplementary congruent

15. What does supplementary mean?

16. What does congruent mean?

Find the measure of ALL of the angles given $m∠1=120°$ and$ m∠11=45°$.

17. $m∠1$ = \_\_\_\_\_, $m∠2$ = \_\_\_\_\_, $m∠3$ = \_\_\_\_\_,

$m∠4$ = \_\_\_\_\_, $m∠5$= \_\_\_\_\_, $m∠6$ = \_\_\_\_\_, $m∠7$ = \_\_\_\_\_$, $

$m∠8$ = \_\_\_\_\_

18. $m∠9$ = \_\_\_\_\_, $m∠10$ = \_\_\_\_\_, $m∠11$ = \_\_\_\_\_,

$m∠12$ = \_\_\_\_\_, $m∠13$= \_\_\_\_\_, $m∠14$ = \_\_\_\_\_,

$m∠15$ = \_\_\_\_\_$, m∠16$ = \_\_\_\_\_

Find the measure of ALL of the angles given $m∠2=67°$ and$ m∠9=115°$.



18. $m∠1$ = \_\_\_\_\_, $m∠2$ = \_\_\_\_\_, $m∠3$ = \_\_\_\_\_,

16

$m∠4$ = \_\_\_\_\_, $m∠5$= \_\_\_\_\_, $m∠6$ = \_\_\_\_\_, $m∠7$ = \_\_\_\_\_$, $

$m∠8$ = \_\_\_\_\_

4

19. $m∠9$ = \_\_\_\_\_, $m∠10$ = \_\_\_\_\_, $m∠11$ = \_\_\_\_\_,

14

10

13

6

$m∠12$ = \_\_\_\_\_, $m∠13$= \_\_\_\_\_, $m∠14$ = \_\_\_\_\_,

$m∠15$ = \_\_\_\_\_$, m∠16$ = \_\_\_\_\_

20. Which way is the correct setup?

A. 12x + 3 + 11x + 9 = 180

B. 12x + 3 = 11x + 9

C. 12x + 3 + 11x + 9 = 90

21. Which way is the correct setup for BOTH?

A. 17x – 70 = 2x + 5 and 3y + 5 = 5y + 15

B. 17x – 70 + 2x + 5 = 180 and 3y + 5 = 5y + 15

C. 17x – 70 = 2x + 5 and 3y + 5 + 5y + 15 = 180

C. 17x – 70 + 2x + 5 = 180 and 3y + 5 + 5y + 15 = 180

22. Solve for x and y. 23. Solve for x.

 

24. Solve for x. 25. Find the measures of Angle 1 and 2.

 



A set of stairs intersects the first floor and the basement of a house at the angles given in the diagram. Find the angle that the stairs forms with the first floor.

?

6x - 42

2x + 14

26.