

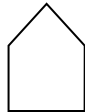
Warm Up 21

1. conditional
2. false
3. true
4. false
5. true

Lesson Practice 21

- a. Therefore, Lorissa is left-handed.
- b. Therefore, the pond is frozen.
- c. Therefore, Michael got a perfect score on the test.
- d. Therefore, Dominiqua will get paid overtime this week.
- e. Therefore, the gift has four wheels.
- f. If Nafeesa enrolls in an elective, then she will play the violin this semester.
- g. If I oversleep tomorrow morning, then I will be late for my appointment.
- h. Law of Syllogism
- i. If a gumble is hungry, he must hunt for gloop; Law of Syllogism.
- j. Therefore, this vehicle has only one wheel; Law of Detachment.

Practice 21

1. Therefore, our company will purchase the granite.
2. 118 ft
3. Yasmini is correct. Slope is a ratio of rise to run and is not a point. Yasmini's calculation of the slope is correct.
4. If all the socks in the drawer are red, then it is certain that a sock I pull out of the drawer will be red; true; It is certain that a sock I pull out of a drawer will be red if and only if all the socks in the drawer are red.
5. yes; If two parallel lines are cut by a transversal, then alternate exterior angles are congruent (Alternate Exterior Angles Theorem).
6. 164 ft
7. 5 units
8. C
9. 3 ft 11 in.
10. Sample: Twenty-five is one more than 24, which is a multiple of 6, but it is not prime.
11. $x = 50^\circ$
12. If $x = 2$, then $3x + 4 = 10$; true
13. If a number is odd, then it is prime; false
14. a. parallelogram
b. trapezoid
15. $(2, 7)$
16. Therefore, the bread is fresh.
17. Sample:

18. Yes, the alternate exterior angles are equal.

19. $a = 57^\circ$, $b = 57^\circ$, and $c = 52^\circ$
20. slope = -2
21. a. Numbers between 20 and 30 are either prime or composite.
- b. The lunch special can come with a soup or a salad.
22. concave; A diagonal can be drawn so that part of the diagonal contains points in the exterior of the polygon.
23. If the season is rainy, then there will be plenty of corn for the livestock.
24. Lucy is the tallest in her class at school.
25. $y = 3x + 4$
26. 9 ft^2
27. No, the alternate interior angles are not equal.
28. a. Today it is cold and snowing.
- b. Later this week is the big game at our school and Anita is playing.
29. $\angle 1 = 60^\circ$; $\angle 2 = 120^\circ$
30. angles $\angle AMF$, $\angle NMB$, $\angle CNM$, and $\angle END$: 135° ; angles $\angle FMB$, $\angle AMN$, $\angle CNE$, and $\angle MND$: 45°