

Geometry Development 2.2

Give the interior and exterior angle measure for each polygon.

- 1) Heptagon 2) Dodecagon 3) 19-gon 4) 33-gon

Give the number of diagonals in each polygon.

- 5) Heptagon 6) Dodecagon 7) 19-gon 8) 33-gon

Would you calculate perimeter, area, or volume in each instance below?

- 9) Amount of carpet to cover the floor of your bedroom.
10) Amount of ice your cooler will hold.
11) Amount of crepe paper to go around the room for your birthday party.
12) How far you rode your bike around downtown Orem.
13) Amount of water to fill the dunk tank for the school carnival.
14) Amount of seed needed to plant the lawn in your yard.

Complete the pattern in by filling in the blank with the number that best fits.

- 15) 7, 2, -3, -8, ___ 16) 1, 8, 6, 13, 11, ___ 17) 1, 9, 25, 49, ___ 18) 32, 16, 8, 4, ___ 19) -1, 0, 1, 8, 27, ___

A commercial building has windows spaced at equal intervals along its' walls. Given the coordinates of two of these windows, state the location of the others.

A

B

C

D

E

F

G

20) $B = 25, C = 40$

21) $D = 112, E = 140$

22) $B = 63, D = 111$

23) $A = 37, F = 262$