Pg. 692; # 7-19 odd
38, 51, 53

GEOMETRY (SECTION 11.1)

7. Vertices: A, B, C, D, E, F, G, H
(8)

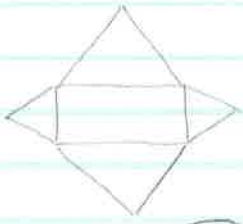
Edges: $\overline{AB}$, $\overline{AE}$, $\overline{AD}$, $\overline{BC}$, $\overline{BF}$,
(12) $\overline{CD}$, $\overline{CG}$, $\overline{DH}$, $\overline{EF}$, $\overline{EH}$,
$\overline{FG}$, $\overline{GH}$

Faces: ABCD, ABFE, BFGC, ADHE,
(6) DCGH, EFGH

9. Edges: 15
Vertices: 9
Faces: (8)
$9 + F = 15 + 2$
$F = 8$

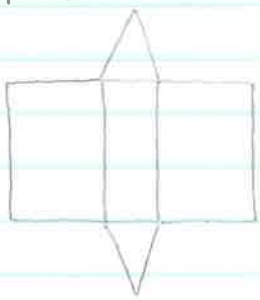
11. Faces: 20
Edges: 30
Vertices: (12)
$20 + V = 30 + 2$
$V = 12$

13.



$5 + V = 8 + 2$ $V = 5$

15. $6 + 5 = 9 + 2$
$11 = 11$ ✓



17. $7 + 7 = 12 + 2$
$14 = 14$ ✓

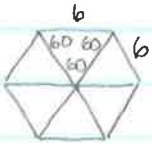
19. Triangle

38. (A). Icosahedron
(B). Octahedron
(C). Tetrahedron
(D). Hexahedron
(E). Dodecahedron

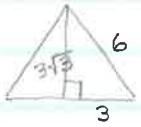
51. $4 + F = 6 + 2$

Faces: 4 (B)

53.



$(6-2)180 = \frac{720}{6} = 120$



$\text{Area} = \left(\frac{1}{2}(6)(3\sqrt{3})\right)(6)$

$= 3(3\sqrt{3})(6)$

$= 18(3\sqrt{3})$

$= 54\sqrt{3}\ in^2$ D