

9-17. SHAPE VISUALIZATION CHALLENGE

Sample descriptions: Net A is a rectangular prism that is also a cube; the base is a square, the faces are squares and there are 6 of them. Net B is a square-based pyramid; there are 5 total faces; the base is a square, the faces are 1 square and 4 triangles. Net C is a rectangular prism; there are 6 total faces; the base is either a square or a rectangle; 4 of the faces are rectangles and 2 of them are squares. Net D is a hexagon-based pyramid; there are 7 faces; the base is a hexagon; there are 6 triangle faces and 1 hexagon.

9-18. ①:380 sq un, ②:384 sq un, ③:448 sq un, ④:448 sq un, ⑤:320 sq un

9-19. 162 cm squares. 162 sq cm

9-20. Predictions vary. SA Net A = 150 cm^2 ; SA Net B = 174 cm^2 ; SA Net C = 198 cm^2 ; SA Net D = 100 cm^2

9-21. $480 \text{ sq ft} \times 12 \text{ coats} \div 140 \text{ sq ft per can} = 41.14 \text{ cans}$; they need 42 cans.

9-22. 759.3 sq m