

6th Grade Unit 5: Lesson 25-1

Check Your Understanding (p. 320):

- 8. 3 m
- 9. 9 m^2
- 10. 54 m^2
- 11. 486 cm^2 ; check students' drawings.

Lesson 25-1 Practice (p. 320):

- 12. 16 ft^2
- 13. 96 ft^2
- 14. 726 m^2
- 15. $1,176 \text{ ft}^2$
- 16. $2,400 \text{ mm}^2$
- 17. 162.24 cm^2
- 18. $37\frac{1}{2} \text{ ft}^2$
- 19. 8 in.; $384 \div 6 = 64$ and $8 \times 8 = 64$
- 20. $1,620 \text{ cm}^2$; $324 \times 5 = 1,620$. The area of each face is 324 cm^2 and there are 5 faces instead of 6.
- 21. He is not correct. Sample answer:
The area of each face is 900 in.^2 He multiplied by the number of sides of a square instead of by the number of faces of a cube to find the surface area.