### 6.6 Exercises

## Vocabulary and Concept Check

1. OPEN-ENDED Draw a composite solid formed by a triangular prism and a cone.
2. REASONING Explain how to find the surface area of the composite solid.


## Practice and Problem Solving

Identify the solids that form the composite solid.
(1)

4.

5.


Identify the solids that form the composite solid. Then find the surface area. Round your answer to the nearest tenth.
(2) (3)
6.

7. 8 m

8.


10.

11.

12. OPEN-ENDED The solid is made using eight cubes with side lengths of 1 centimeter.
a. Draw a new solid using eight cubes that has a surface area less than that of the original solid.
b. Draw a new solid using eight cubes that has a surface area greater than that of the original solid.

13. BATTERIES What is the percent increase in the surface area of the AAA battery to the AA battery? Round your answer to the nearest tenth of a percent.

14. BARBELL The diameter of the handle of a barbell is 1 inch. The hexagonal weights are identical. What is the surface area of the barbell?

REASONING Find the surface area of the solid. Round your answer to the nearest tenth.
15. 4 in .

16.

17.

18. Trininking The cube is made with 27 identical cubes. All cubes that cannot be seen are orange. Is the surface area of the solid formed without the purple cubes greater than, less than, or equal to the surface area of the solid formed without the green cubes? Explain your reasoning.

(4) Fair Game Review what you learned in previous grades \& lessons

## Find the area. SKILLS REVIEW HANDBOOK

19. 


20.

21.

22. MULTIPLE CHOICE A cliff swallow nest is 86 meters above a canyon floor. The elevation of the nest is -56 meters. What is the elevation of the canyon floor? SECTION 2.4
(A) -142
(B) -30
(C) 30
(D) 142

