



Unit 2 Cumulative Assessment

For Problems 1–4, insert grouping symbols to make the number sentences true.

- ① $160 \div 16 + 4 = 8$ ② $4 + 6 * 8 \div 2 = 40$
 ③ $3 = 120 \div 64 - 24$ ④ $135 = 42 + 3 * 3$

- ⑤ a. Write each expression in the correct column.

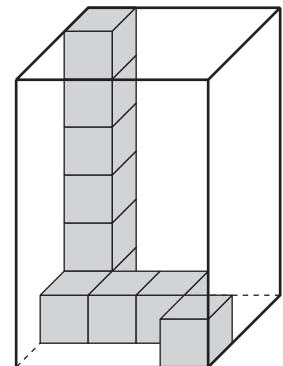
$2 * (12 + 4)$ $12 + 4 - 4$ $(12 + 4) \div 8$
 $6 + 12 + 4$ $(12 + 4) * 10$ $(12 + 4) - 10$

$> (12 + 4)$	$< (12 + 4)$

- b. Did you need to evaluate the expressions to solve Problem 5a? Why or why not?

- ⑥ a. Find the volume of the prism.

Volume = _____ cubic units



- b. Explain how you found the volume of the prism.

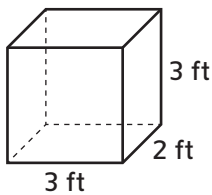


Unit 2 Cumulative Assessment (continued)

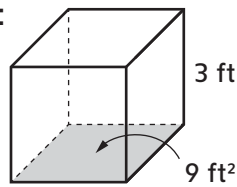
- 7 Why is a unit cube a good unit for measuring volume?

- 8 Damien is buying boxes from a moving company. He wants to buy the box that will fit the most of his belongings. He can choose between the following three options:

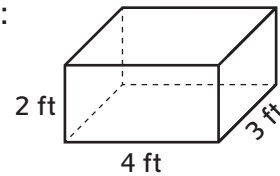
Box 1:



Box 2:



Box 3:



What is the volume of each box? Write a number sentence that shows how you found the volume. *Remember: $V = l \times w \times h$ and $V = B \times h$*

Volume of Box 1: _____ Number sentence: _____

Volume of Box 2: _____ Number sentence: _____

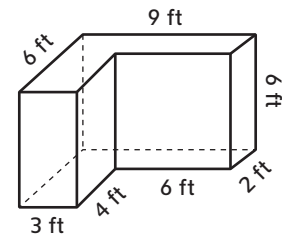
Volume of Box 3: _____ Number sentence: _____

Which box should Damien buy? Explain your answer. _____

- 9 Josh's family is renting a storage unit. The storage facility gave Josh's family this sketch of a storage unit.

a. What is the volume of the storage unit? _____ ft^3

b. Josh's family estimated that they need a unit with a volume of 10 cubic yards. How many cubic feet of storage space do they need? *Hint: There are 3 feet in 1 yard.*



Josh's family needs _____ ft^3 of storage space.

c. Is the storage unit large enough for Josh's family? Explain why or why not.
