3 Develop the Concept

3 Independent Practice

Remind students to use the formulas $V = \ell \times w \times h$ or $V = B \times h$ to find the volume of each rectangular prism. Use Exercise 13 as an example. ***What formula should you use to find the volume of this prism?*** [$V = B \times h$]

Problem Solving

Exercise	Content
16	Multiplication (64 × 9)
17	Division (64 ÷ 7) Interpret Remainders
18	Division (50 ÷ 4)
19	Estimate Volume (7 × 4 × 3)
20	Write Fractions
21	Perimeter (16 + 11 + 20 + 9)
22	Describe Relationships Mathematically
23	Communicate Math Understanding Mental Addition (5.95 + 1.05 + 4.25)
24	Estimate Volume (5 × 2 × 2)
25	Volume (3 × 6 × 4)
26	Evaluate Expressions (3 × 20) − 17

Students use underlying processes and mathematical tools for Exercises 16–26. Remind students to check for reasonableness when solving each problem.

Exercise 20
Language of Math: Identify Relationships Remind students that 3 out of 9 can be written as $\frac{3}{9}$ and simplified to $\frac{1}{3}$.

Exercise 25
Test-Taking Tip: Make Smart Choices Encourage students to eliminate wrong answers. ***How do you find volume?*** [$\ell \times w \times h$] ***Which is the only answer that shows three numbers multiplied together?*** [Choice A]

Independent Practice

For **13** through **15**, find the volume of each rectangular prism.

13. Base area: 56 in^2, height: 5 in.
280 in^3

14. Base area: 100 ft^2, height: 17 ft
1,700 ft^3

15. Base area: 72 yd^2, height: 8 yd
576 yd^3

Problem Solving

For **16** through **18**, use the information below.

Sixty-four students are planning a field trip to the Art Museum. Each student will pay $9. Each van can hold 7 students and 1 driver.

16. How much money will be collected if all the students attend?
$576

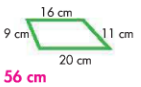
17. How many vans will be needed if all the students travel to the museum?
10 vans

18. The school pays each driver $50 to drive the van. If the round trip takes 4 hours, how much does each driver make per hour?
$12.50

19. Estimation A rectangular prism measures 6.7 in. by 4.2 in. by 2.5 in. Round each measure to the nearest whole number to estimate the volume.
About 84 in^3

20. Only 3 students per event can win medals at the track meet. If 9 students are competing in an event, what fraction of the students will win a medal? $\frac{1}{3}$

21. What is the perimeter of this figure?



56 cm

22. Algebra Last week 22 people worked a total of 1,100 hours. Each person worked the same number of hours. Which equation represents this information?

A $1{,}100h = 22$ C $h \div 1{,}100 = 22$
B $22 \div h = 1{,}100$ D $22h = 1{,}100$

23. Writing to Explain Harry is in line at the store. He has 3 items that cost $5.95, $4.25, and $1.05. Explain how Harry can add the cost of the items mentally before he pays for them.
See margin.

24. Estimation Lisa and Ranjan are going on a trip. The trunk they are using is 4.5 feet wide, 1.75 feet high, and 2 feet deep. What is the estimated volume of the trunk?
About 20 ft^3

25. Think About the Process Which expression can be used to find the volume of this antique box?

A $(6 \times 4) \times 3$ C 6×4
B $(6 \times 4) + 3$ D $2 \times (6 \times 4 \times 2)$

26. Algebra Find $3c - 17$ if $c = 20$.
43

334

23. Sample answer: First add the compatible numbers $5.95 + $1.05 = $7. Then add $7 + $4.25 = $11.25.