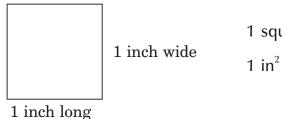




## **Volume**

We measure length with a ruler. ◆ 1 in

We measure area like this.



1 square inch

Volume is the space taken up by a solid. It is measured in cubes.

This cube has 2 layers with 4 cubes in each layer. When we put the layers together some of the cubes are hidden.

Volume = 8 cubic centimeters

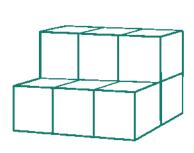


$$or V = 8 cm^3$$



one hidden cube

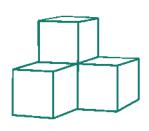
Find the volume. Remember the hidden cubes.



**1. a.** \_\_\_\_ cm<sup>3</sup>



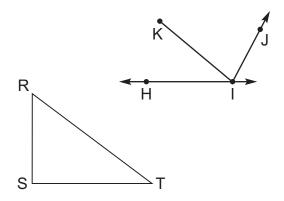
**b.** \_\_\_\_\_ cm<sup>3</sup>





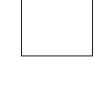
Name the following. Use the symbols.

- 2. line segment \_\_\_\_\_
- 3. line \_\_\_\_\_
- **4.** triangle \_\_\_\_\_



Multiply three factors.





— Skill Builders <sup>+</sup>; ⊤x

\$.15

**6. a.** × 24





Write remainders as whole numbers.

7. a. 8)75

**b.** 3)48



c.  $7)\overline{542}$ 



The boys like to watch the horned lizards, or "horny toads" in the desert near the school. A horny toad can shoot blood out of its eyes to scare away its enemies. If a 13 cm horny toad can shoot blood 7 times its length, how far can it shoot blood from its eyes?

**My Work Space** 



9.7 Ants are a horny toad's favorite food. One day Brendon watched a horny toad sitting beside an anthill. In one minute it gobbled up 8 ants that scurried by. If the horny toad kept that up for 15 minutes, how many ants would he eat?

**My Work Space** 

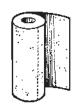
# What solids do these items suggest?











- 10. a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_
- d. \_\_\_\_\_
- e

Circle the greater number in each pair.

**11. a.** 1.5 1.8

**b.** 6.80 6.08

**c.** 2.1 1.2

Circle the smaller number in each pair.

**12. a.** 2.25 5.22

**b.** 3.4 3.6

**c.** 3.02 3.10

Write the decimals.

- 13. five and nine-tenths \_\_\_\_\_
- 14. one and one-hundredth \_\_\_\_\_

#### Lesson 3

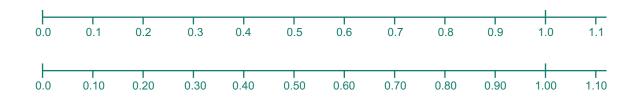
#### Circle the numbers that are . . .

- **15. a.** common factors of 8 and 32. 2 3 4 5 6 7 8 9 10
- **b.** common factors of 6 and 12. 2 3 4 5 6 7 8 9 10

#### Measure to the nearest centimeter.

**16.** \_\_\_\_\_ cm

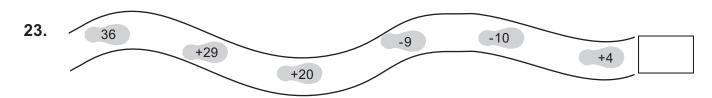
#### Write the numbers.



## Look at the number lines to help you find the answers.

The temperature on the surface of the sun is about 11,000°F  $(6,000^{\circ}C)$ .

# — Mental Math



# **Changing Improper Fractions to Whole or Mixed Numbers**

You can change an improper fraction to a whole or mixed number by dividing. Change  $\frac{25}{8}$  to a mixed number.



Divide the numerator (25) by the denominator (8).





If there is a remainder, write it as a fraction. If there is no remainder, the answer is a whole number.

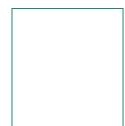
$$8)25 + \frac{3\frac{1}{8}}{24}$$

Change these improper fractions to mixed numbers.

1. a.  $\frac{14}{8}$ 



**b.** 
$$\frac{10}{3}$$



**c.** 
$$\frac{58}{8}$$

Add. Each answer will be an improper fraction. Change each one to a mixed number. Do the dividing on another sheet of paper. One is done for you.

2. a. 
$$\frac{\frac{3}{4}}{\frac{6}{4}} = 1\frac{2}{4}$$

**b.** 
$$\frac{7}{10}$$

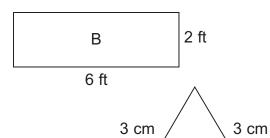
c. 
$$\frac{68}{8}$$

d. 
$$+\frac{4}{5}$$



#### Write number sentences to find the perimeters.

- 3. Rectangle \_\_\_\_\_
- **4.** Triangle \_\_\_\_\_



6 in

3 cm

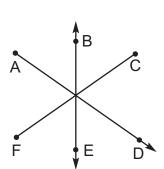
1 in

C

1 in

Write number sentences to find the area of both squares and the rectangle.

- 5. larger square
- 6. smaller square \_\_\_\_\_
- **7.** rectangle \_\_\_\_\_
- 8. Which shape is similar to shape C?
- 9. Name the ray.



6 in

Α

# Measure to the quarter-inch.

- **10.** \_\_\_\_\_ inches \_\_\_\_\_
- Pastor Mike needed to replace some broken fence railings around the mission. He got a permit to cut some long, thin trees from a nearby forest. He estimated that each tree weighed 200 pounds. Jeremy, Davidson, and Pastor Mike loaded 9 trees onto a trailer. What did the load weigh?

**My Work Space** 

The bark had to be peeled off the trees before they could be used for fence rails. Kayleb spent  $\frac{3}{4}$  hours peeling the bark off some of the trees. Brendon spent  $\frac{2}{4}$  hours peeling off bark. How much more time did Kayleb work on this job than Brendon?

**My Work Space** 

Write the decimals.

- **13.** twenty-five and two-tenths \_\_\_\_\_
- 14. thirty-seven hundredths \_\_\_\_\_
- **15.** nine and nine-tenths \_\_\_\_\_
- 16. six and seven-hundredths \_\_\_\_\_

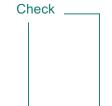
Crickets can
be used to
determine the
temperature. The
temperature in degrees
Fahrenheit is equal to
40 plus the number of
cricket chirps in 14
seconds.

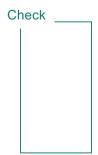
 Skill	Builders	+×

Write the remainder in **18b** as a fraction. Write the remainder in **18c** – as a whole number.

			4	6
17.	a.	×	4	0

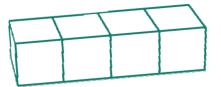
70.3





#### Lesson 4

#### Find the volume.



## Write each digit beside its correct place value.

\$4.679.31

- **20.** a. \_\_\_\_\_ ones
- **b.** \_\_\_\_\_ hundredths
- **c.** \_\_\_\_\_ tens

- 21. a. \_\_\_\_\_ tenths
- **b.** \_\_\_\_\_ hundreds
- c. \_\_\_\_\_ thousands

Circle the numbers that have 8 as a factor. Underline those that have 7 as a factor.

- **22**. 24
- 49
- 72
- 56

36

31

- 64
- 14

Circle the numbers that have 6 as a factor. Underline those that have 4 as a factor.

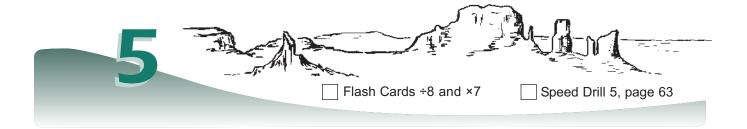
- **23.** 24
- 17
- 40
- 16
- 36
- 12

Write the first ten multiples of 11.

## Continue the time patterns.

Circle the improper fraction.

- **27.**  $\frac{1}{2}$



Tell your teacher when you are ready for Quiz 1.



# Just for Fun

# **Trace the Pattern**

Trace the correct path from start to finish by following this pattern: Add 3, subtract 1, add 3, subtract 1, . . .

15	14	17	16	19	18	→ Finish
12	13	10	11	5	13	
14	2	9	8	8	7	
7	5	6	4	10	12	
5	4	7	5	6	3	
2	1	8	2	8	7	
<u></u>	_	·	_	·	_	-