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DATE

PERIOD

Unit 3, Lesson 8
Practice Problems

1. A kangaroo hops 2 kilometers in 3 minutes. At this rate:
 - a. How long does it take the kangaroo to travel 5 kilometers?
 - b. How far does the kangaroo travel in 2 minutes?

2. Mai runs around a 400-meter track at a constant speed of 250 meters per minute. How many minutes does it take Mai to complete 4 laps of the track? Explain or show your reasoning.

3. At 10:00 a.m., Han and Tyler both started running toward each other from opposite ends of a 10-mile path along a river. Han runs at a pace of 12 minutes per mile. Tyler runs at a pace of 15 minutes per mile.
 - a. How far does Han run after a half hour? After an hour?

 - b. Do Han and Tyler meet on the path within 1 hour? Explain or show your reasoning.

4. Two skateboarders start a race at the same time. Skateboarder A travels at a steady rate of 15 feet per second. Skateboarder B travels at a steady rate of 22 feet per second. After 4 minutes, how much farther will Skateboarder B have traveled? Explain your reasoning.

5. There are 4 tablespoons in $\frac{1}{4}$ cup. There are 2 cups in 1 pint. How many tablespoons are there in 1 pint? If you get stuck, consider drawing a double number line or making a table.

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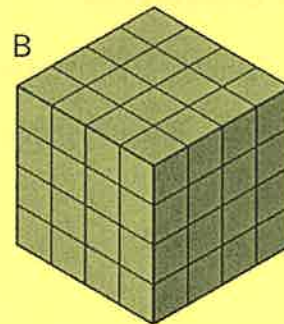
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6. Two larger cubes are made out of unit cubes. Cube A is 2 by 2 by 2. Cube B is 4 by 4 by 4.

a. Is the surface area of Cube B also twice that of Cube A? Explain or show your reasoning.

b. Is the volume of Cube B also twice that of Cube A? Explain or show your reasoning.



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