Name _____

Problem Solving • Distance, Rate, and Time Formulas

COMMON CORE STANDARD—6.RP.3d
Understand ratio concepts and use ratio reasoning to solve problems.

Read each problem and solve.

1. A downhill skier is traveling at a rate of 0.5 mile per minute. How far will the skier travel in 18 minutes?

$$d = r \times t$$
$$d = \frac{0.5 \text{ mi}}{1 \text{ min}} \times 18 \text{ min}$$
$$d = 9 \text{ miles}$$

2. How long will it take a seal swimming at a speed of 8 miles per hour to travel 52 miles?

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3. A dragonfly traveled at a rate of 35 miles per hour for 2.5 hours. What distance did the dragonfly travel?

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4. A race car travels 1,212 kilometers in 4 hours. What is the car's rate of speed?

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5. A cyclist travels at a rate of 1.8 kilometers per minute. How far will the cyclist travel in 48 minutes?

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6. Kim and Jay leave at the same time to travel 25 miles to the beach. Kim drives 9 miles in 12 minutes. Jay drives 10 miles in 15 minutes. If they both continue at the same rate, who will arrive at the beach first?

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