

6.12 Speed, Distance, and Time

Chapter 6: Ratios, Rates, and Proportional Reasoning

Name: _____

Date: _____

Class/Period: _____

Problem 6.179 Find distance at 45 mph for 4 hours.

Problem 6.182 Find distance at 7.5 m/s for 40 seconds.

Problem 6.180 Find time for 180 miles at 60 mph.

Problem 6.183 Find time for 9 km at 6 km/h.

Problem 6.181 Find speed for 150 meters in 12 seconds.

Problem 6.184 Convert 2.25 hours to hours and minutes.

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Problem 6.185 A car travels 300 miles in 5 hours. Find mph.

Problem 6.188 Explain why d/t has speed units.

Problem 6.186 A walker moves 4 mph for 75 minutes. Find miles.

Problem 6.189 Which is faster: 12 m/s or 600 m/min?

Problem 6.187 A boat travels 28 km at 14 km/h. Find time.

Problem 6.190 Which is faster: 5 km in 24 min or 8 km in 40 min?

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Problem 6.191 A bus travels 90 miles at 45 mph and 120 miles at 60 mph. Find total time and average speed.

Problem 6.193 Two cyclists start 84 miles apart and ride toward one another at 12 mph and 16 mph. How long until they meet?

Problem 6.192 A runner travels 3 miles in 24 minutes, rests 6 minutes, then runs 2 miles in 18 minutes. Find average speed in miles per hour including the rest.

Problem 6.194 A car must average 50 mph over a 200-mile trip. After 2 hours it has traveled 80 miles. What speed must it average for the remaining distance?