

NAME _____

DATE _____

RATE OF MOTION: Worksheet 3

Using $d = rt$, find the following.

1) $r =$

2) $t =$

3) Rate = 28 mph. Time = 2.5 hours.
Find distance.

4) Time = 3.2 hours. Distance = 200 miles.
Find rate.

5) Distance = 147 miles. Rate = 28 mph.
Find time.

6) John drove 1.75 hours at 40 mph. What was the distance John traveled?

7) Brandon won a race averaging 104 mph. The race lasted 2.5 hours. How many miles did Brandon drive?

8) Susan flew on American Airlines for 2.75 hours. The trip was 880 miles. What was the average speed of the jet?

9) The Montgomery's went on vacation and traveled by car. They traveled 110 miles and averaged 50 mph. How long did the trip take?

10) Bill ran 114 meters in 9.5 seconds. What was Bill's speed in meters per second?

KEY

RATE OF MOTION: Worksheet 3

Using $d = rt$, find the following.

1) $r =$ $r = \frac{d}{t}$

2) $t =$ $t = \frac{d}{r}$

3) Rate = 28 mph. Time = 2.5 hours.
Find distance.

$$d = rt \quad d = 28 \cdot 2.5$$

$$d = 70mi$$

4) Time = 3.2 hours. Distance = 200 miles.
Find rate.

$$r = \frac{d}{t} \quad r = \frac{200}{3.2}$$

$$r = 62.5mph$$

5) Distance = 147 miles. Rate = 28 mph.
Find time.

$$t = \frac{d}{r} \quad t = \frac{147}{28}$$

$$t = 5.25hrs$$

6) John drove 1.75 hours at 40 mph. What was the distance John traveled?

$$d = rt \quad d = 40 \cdot 1.75$$

$$d = 70mi.$$

7) Brandon won a race averaging 104 mph. The race lasted 2.5 hours. How many miles did Brandon drive?

$$d = rt \quad d = 104 \cdot 2.5$$

$$d = 260mi.$$

8) Susan flew on American Airlines for 2.75 hours. The trip was 880 miles. What was the average speed of the jet?

$$r = \frac{d}{t} \quad r = \frac{880}{2.75}$$

$$r = 320mph$$

9) The Montgomery's went on vacation and traveled by car. They traveled 110 miles and averaged 50 mph. How long did the trip take?

$$t = \frac{d}{r} \quad t = \frac{110}{50}$$

$$t = 2.2hrs.$$

10) Bill ran 114 meters in 9.5 seconds. What was Bill's speed in meters per second?

$$r = \frac{d}{t} \quad r = \frac{114}{9.5}$$

$$r = 12mps$$