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NAME _____   DATE _____

RATE OF MOTION: Worksheet 4

Using $d = rt$, find the following.

1) $r =$

2) $t =$

3) Rate = 36 mph. Time = 2.75 hours.
    Find distance.

4) Time = 3.2 hours. Distance = 144 miles.
    Find rate.

5) Distance = 165 miles. Rate = 33 mph.
    Find time.

6) John drove 2.8 hours at 60 mph. What was the distance John traveled?

7) Brandon won a race averaging 120 mph. The race lasted 3.2 hours. How many miles did Brandon drive?

8) Susan flew on American Airlines for 3.5 hours. The trip was 1680 miles. What was the average speed of the jet?

9) The Montgomery's went on vacation and traveled by car. They traveled 440 miles and averaged 55 mph. How long did the trip take?

10) Bill ran 120 yards in 16 seconds. What was Bill's speed in yards per second?

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KEY
RATE OF MOTION: Worksheet 4

Using $d = rt$, find the following.

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

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

3) Rate = 36 mph. Time = 2.75 hours. $d = rt$ $d = 36 \bullet 2.75$
Find distance. $d = 99mi$

4) Time = 3.2 hours. Distance = 144 miles. $r = \dfrac{d}{t}$ $r = \dfrac{144}{3.2}$
Find rate. $r = 45mph$

5) Distance = 165 miles. Rate = 33 mph. $t = \dfrac{d}{r}$ $t = \dfrac{165}{33}$
Find time. $t = 5hrs$

6) John drove 2.8 hours at 60 mph. What was the distance John traveled? $d = rt$ $d = 60 \bullet 2.8$
$d = 168mi.$

7) Brandon won a race averaging 120 mph. The race lasted 3.2 hours. How many miles did Brandon drive?
$d = rt$ $d = 120 \bullet 3.2$
$d = 384mi.$

8) Susan flew on American Airlines for 3.5 hours. The trip was 1680 miles. What was the average speed of the jet?
$r = \dfrac{d}{t}$ $r = \dfrac{1680}{3.5}$
$r = 480mph$

9) The Montgomery's went on vacation and traveled by car. They traveled 440 miles and averaged 55 mph. How long did the trip take?
$t = \dfrac{d}{r}$ $t = \dfrac{440}{55}$
$t = 8hrs.$

10) Bill ran 120 yards in 16 seconds. What was Bill's speed in yards per second?
$r = \dfrac{d}{t}$ $r = \dfrac{120}{16}$
$r = 7.5 yps$