8	Physics Quiz 1 MP 1 NAME KEY	d =vt

1) A car is traveling at 70 miles per hour (mph) for 5 hours. The car travels 350 miles. Identify the information.

3pts

d = 350miles
t = 5 hours
v = 70 mph

$\frac{\#}{31} =$ ( )

2) An antelope is galloping at 9 meters per second (m/s). It does this for 50 seconds (s). How far has the antelope gone?

2pts

d = ?
t = 50sec
v = 9m/s

$d = vt$
$d = (9)(50)$ 2pts
$d =$ 450m 3pts (UNIT 1 PT)

3) A car travels 800 miles in 16 hours. What was the average speed of the car?

2pts

d = 800miles
t = 16 hours
v = ?

$d = vt$
$800 = v(16)$ 2pts
$\frac{800}{16} = v =$
$v =$ 50mph 3pts (UNIT 1PT)

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4) A car is traveling at 20 mph. The car travels 420 miles. How much time did this take?

d = 420 miles
t = ?
v = 20 mph
(2 pts)

$d = vt$

$420 = 20t$

(2 pts)

$\frac{420}{20} = t =$

$t =$ 21 hours (3 pts) (1 pt. unit)

5) A person walked at a speed of 6 m/s for 50 minutes. How far did they go?

d = ?
t = 50 min
v = 6 m/s
(2 pts)

$d = vt$ (2 pts)

$d = (6)(3000)$

$d =$ 18,000 m (3 pts) (1 pt. unit)

$t = 50\,\text{min} \times \frac{60\,\text{sec}}{\text{min}} = 3000\,\text{sec}$

8	Physics Quiz 1 MP 1 NAME KEY	d =vt

1) A car is traveling at 80 miles per hour (mph) for 4 hours. The car travels 320 miles. Identify the information.

3pts

d = 320 miles

t = 4 hours

v = 80 mph

$\frac{\#}{31} =$ ( )

2) An antelope is galloping at 7 meters per second (m/s). It does this for 30 seconds (s). How far has the antelope gone?

2pts

d = ?

t = 30sec

v = 7 m/s

$d = vt$

$d = (7)(30)$ (2pts)

$d =$ [210m] (3pts) (1 pt correct unit)

3) A car travels 700 miles in 14 hours. What was the average speed of the car?

2pts

d = 700miles

t = 14 hours

v = ?

$d = vt$

$700 = v(14)$

$\frac{700}{14} = v$ (2pts)

$v =$ [50mph] (3pts) (1 pt. UNIT)

17

4) A car is traveling at 40 mph. The car travels 600 miles. How much time did this take?

d = 600 miles
(2pts) t = ?
v = 40 mph

$d = vt$

$600 = 40t$

(2pts)

$\frac{600}{40} = t$

$t =$ 15 hours (3pts) (1 pt. correct unit)

5) A person walked at a speed of 4 m/s for 80 minutes. How far did they go?

d = ?
(2pts) t = 80 min
v = 4 m/s

$d = vt$ (2pts)

$d = (4)(4800)$

$d =$ 19,200 m (3pts) (1 pt. correct unit)

$t = 80\,\text{min} \times \frac{60\,\text{sec}}{\text{min}}$

$t = 4800$ sec