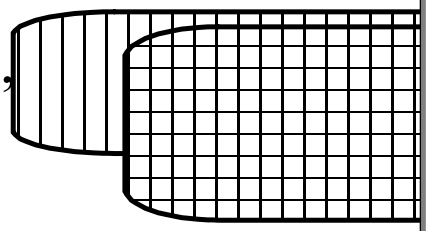
Nov 15, 2019

go over answers pg358 #3cd,4,7bc,8,
extra practice d,v,t assignment



Warm-Up

1. Hans stands at the rim of the Grand Canyon and yodels down to the bottom. He hears his yodel echo back from the canyon floor 0.086 min later. The yodel travelled at a speed of 340.0 m/s. How deep is the canyon?

$t = 0.086$ min
$v = 340.0$ m/s

convert 0.086 min $\times \frac{60\ s}{1\ min} = 5.2$ s

$d = vt$
$d = (340.0\text{m/s})(5.200\text{s})$
$d = 1768$ m

Test Nov 26th Chapter 9!!

Pg 358 #3cd,4,7bc,8,9

3c) t = 2.1h
v = 3.6 km/h

d=vt
d = (3.6km/h)(2.1h)
d = 7.6km

Mary travelled 7.6km

d) d = 25km
v = 5.2km/h
t= ?

$t = \frac{d}{v} = \frac{25km}{5.2km/h} = 4.8h$

The hiker would take 4.8h

4. v = 90km/h
t = 2.50 h
d = ?

d = vt
d = (90km/h)(2.50h)
d = 225 km

7b. v= 85.4 km/h
d = 6670 km
t = ?

$t = \frac{d}{v} = \frac{6670km}{85.4km/h} = 78.1\ h$

It would take the Orbiter 78.1 h to cross the Atlantic ocean.

Sep 14-1:56 PM

7 c) t = 18h
v = 210km/h
d = ?

d = vt
d = (210km.h)(18h)
d = 3780km

The balloon travelled 3780 km

8.a) d = 604 m
v = 341 m/s

$t = \frac{d}{v} = \frac{604m}{341m/s} = 1.77s$

b) $341\ m/s \times \frac{3.6km/h}{1m/s} = 1227.6\ km/h$

9. v = 5.0 m/s
v = 4.5 m/s
subtract the two velocity's
5.0m/s - 4.5m/s = 0.5m/s
t = 10min

d = vt
= (0.5m/s) (600s)
= 300 m or 3.0×10^2 m

The distance between the runners after 10min is 300m.

convert min to seconds

$10\ min \times \frac{60sec}{1min} = 600\ s$

Nov 9-11:33 AM

Complete Velocity Word Problems Assignment

Don't forget:
1. Show all work.
2. Put on a separate sheet of paper.
3. Use the correct formula.
4. Convert if needed.

Once complete pass in for grading. It will be marked as an assignment.

Total: /35

Due Monday!!!

Sep 16-2:31 PM

answers pg 358 #3cd,4,7bc,8,9.notebook