

$$\cancel{d=rt}$$

$$\cdot d=vt$$

$$d = (3.00 \times 10^8 \text{ m/s}) (485 \text{ s})$$

$$d = 1.455 \times 10^{11} \text{ Meters}$$

$$d = vt$$

$$(3.0 \times 10^8 \text{ m/s}) (485 \text{ s})$$

$$\left[ 1.455 \times 10^{11} \cancel{\text{M}} \right] \left[ \frac{3.28 \cancel{\text{FT}}}{\cancel{\text{M}}} \right] \left[ \frac{1 \text{ Mile}}{5280 \cancel{\text{FT}}} \right] = 0.000904 \times 10^{11}$$

$$= 9.04 \times 10^7 \text{ Miles}$$

$$= \underline{90,400,000.00 \text{ Miles}}$$

$$\cancel{d = vt}$$

$$\frac{d}{\Delta t} = V_{\text{avg}} \left[ d = vt \right]$$

$$2) \cdot 485 \text{ s} \times 300,000,000 \frac{\text{m}}{\text{s}} = 1.455 \times 10^{11} \text{ Meters}$$

conversion to miles:

$$1.455 \times 3.28 = 4772400000000 = \frac{4.7724 \times 10^{11}}{5280} = 90,386,363.64 \text{ miles}$$

$$\frac{(1.455)(10^{11}) \text{ m}}{[1]} \left[ \frac{3.28 \text{ ft}}{\text{m}} \right] \left[ \frac{\text{Mile}}{5280 \text{ ft}} \right] \approx 90 \text{ million miles}$$

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POD 1

5. 10/10 points Notes Question: CPO-PFC1 1.P.11.

It takes Brooke 41.4 minutes to run 2.4 miles. What is her speed in miles per minute?

✓ mi/min

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6. 0/10 points Notes Question: CPO-PFC1 1.P.10.

The gray wolf is a threatened animal that is native to the United States. A wildlife biologist tracks a gray wolf that moves 251 meters in 90 seconds. Calculate the wolf's speed in meters per second.

✗ m/s

Practice Another Version

$$d = vt$$
$$\frac{251\text{m}}{90\text{s}} = v \frac{90\text{s}}{90\text{s}} = 2.79 \text{ m/s}$$

7. 10/10 points Notes Question: CPO-PFC1 1.P.03.

Order the following lengths from shortest to longest.

Done Internet 100%

