A boat traveled 126 kilometers in 4 hours. What was it's average speed for the trip.

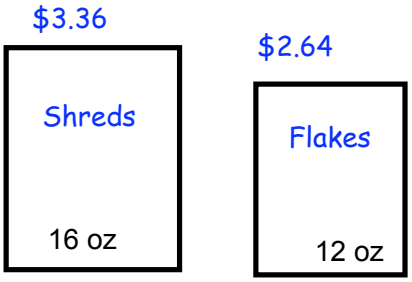
rate = distance / time

$D = R \cdot T$

$\frac{126\text{ km}}{4\text{ h}} = \frac{R \cdot 4}{4}$

$31.5\frac{\text{km}}{\text{h}} = R$

Which is a better buy?
Convert both to a unit price.



10 mph

8 mph

30 minutes

dert formula

distance = rate x time (rate means speed)

#8 from page 162

rate = distance / time

$$R = \frac{D}{T}$$

$$d = R \cdot T$$

$$\frac{d}{R} = \frac{R \cdot T}{R}$$

$$\frac{D}{R} = T$$

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17-35

SKIP 18, 22-25

17) LA ——— 400 miles ——— SF

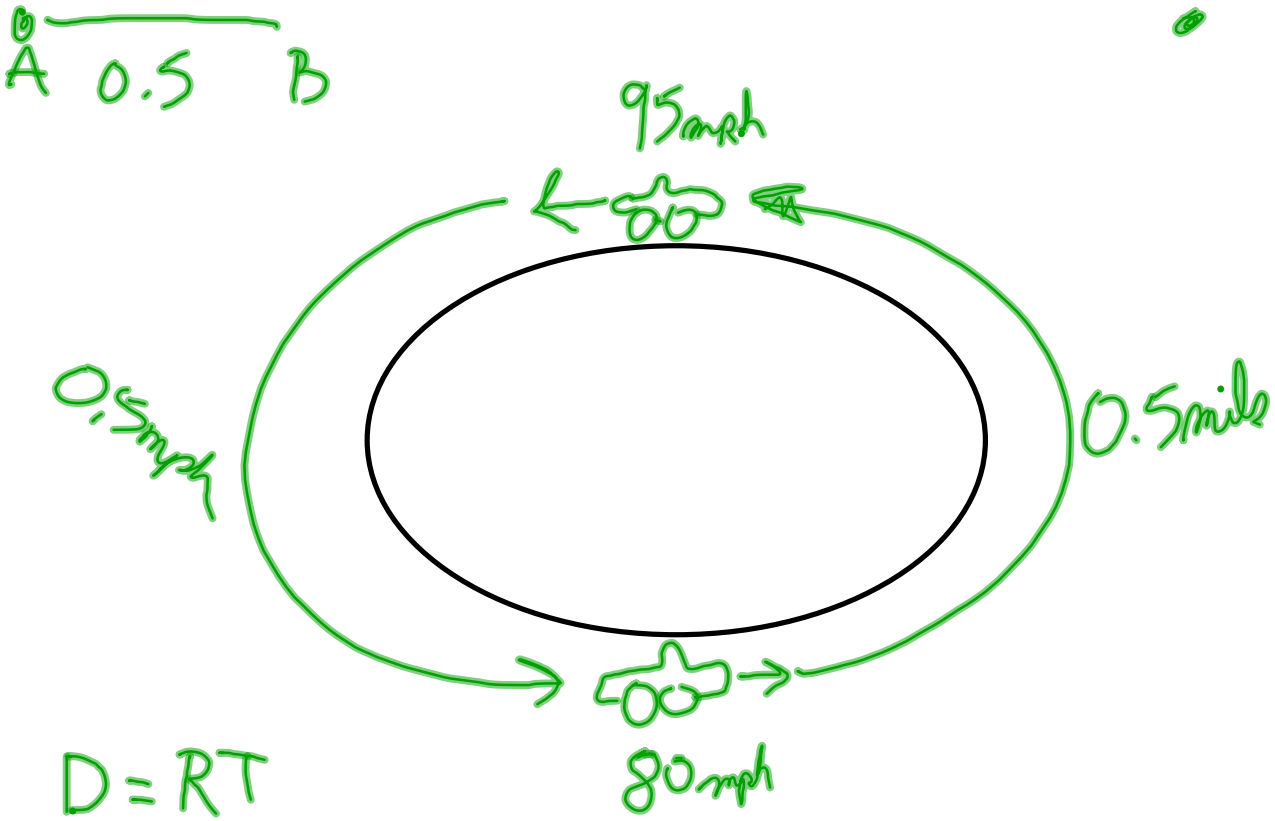
$d = r \cdot t$ $\qquad 65 \frac{m}{H}$

$$\frac{400}{65} = \frac{65 \cdot t}{65}$$

$$6.15 = t = 369 \text{ min}$$

6 hrs & 0.15 X 60 min

6 hrs & 9 min.



$D = RT$

$\frac{0.5}{15} = \frac{15 \cdot t}{15}$

$0.0\overline{3} = t$

this answer is in hours. Now convert the decimal hour into minutes. To see how look at the previous slide.