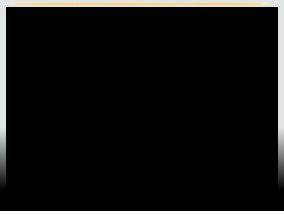
MasterMath

NUMBER SENSE

Rates



Unit Rates

Rates

Unit Rates

Your family drives 150 miles in 3 hours. What was your average Miles Per Hour?

$$\frac{150 \text{ miles}}{3 \text{ hrs}} = \frac{50 \text{ miles}}{1 \text{ hr}} = 50 \text{ MPH}$$

(÷3 connects 150 miles to 50 miles; ÷3 connects 3 hrs to 1 hr)

Driving these 150 miles, your car burns 6 gallons of gas. What was your average miles per gallon?

$$\frac{150 \text{ miles}}{6 \text{ gal}} = \frac{25 \text{ miles}}{1 \text{ gal}} = 25 \text{ MPG}$$

Rates

Unit Rates

On your trip, you average 45 MPH. You need to travel 135 miles. How long will it take you?

$\frac{45 \text{ miles}}{1 \text{ hr}} = \frac{135 \text{ miles}}{x \text{ hours}}$ (×3)

$3 = 3$

Rates

Unit Rates

$\frac{\$3.84}{4 \text{ lb}} = \frac{.96}{1 \text{ lb}}$

$= \frac{.96}{1 \text{ lb}} \times \frac{1 \text{ lb}}{16 \text{ oz}}$

$\frac{.96}{16 \text{ oz}} = \frac{.06}{1 \text{ oz}}$

Rates

You try it!

Write a Unit Rate: $44 in 8 hours

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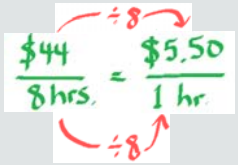

Rates

You try it!

You have 2 summer job offers. At Fred's Farm, they'll pay you $58 per 8 hour shift to pick tomatoes. At Rosey's Restaurant, they'll pay you $6 per hour to wash dishes. Which job pays more per hour?

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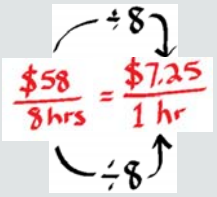
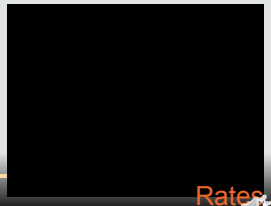


Rates

You try it!

You are driving to the camp grounds, which is 120 miles away. It's now 2PM, and you need to be there by 6PM, when the park office closes. What average speed do you need to maintain?



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$$\frac{120 \text{ miles}}{4 \text{ hrs}} = \frac{30 \text{ miles}}{1 \text{ hr}}$$

(÷4 on both sides)

Rates

You try it!

Now, try it on your own. Go to
www.MasterMath.info
download
Rates
from the Worksheets Page, and test your skill.

Rates