Unit Rates

9/14

Rate - Compares 2 quantities with different units

Unit Rate - A rate with a denominator of 1

ex) $\frac{100 \text{ words}}{2 \text{ minutes}}$ (Rate) $= \frac{50 \text{ words}}{1 \text{ minute}}$ (Unit Rate) } 50 words per minute

To find a unit rate → Divide

(Key word: Per) Per = division

Sep 10-12:14 PM

What is the better deal? Cost per bottle/can

Gatorade 8 Pack
8/20 fl. oz. btl.
$4.99

INSTANT BONUS! Receive 5 Propel Fitness Waters, 24 fl. oz. btl., FREE Instantly When You Buy 2 Gatorade 8 Packs, Purchase of 2 must be made in a single transaction, Limit 1 deal per transaction

$4.99 / 8 pack

Cost Per bottle
4.99 ÷ 8
0.623
≈ $0.62 per bottle

Pepsi 12, 10 Packs
Selected Varieties, 10/7.5 or 12/12 fl. oz. cans or 8/12 fl. oz. btls.
3 for $12

Plus Deposit Where Applicable, When You Buy Multiples of 3, Other Quantities $5.99

Cost per pack
12 ÷ 3 = $4

Cost per can
4 ÷ 10
$0.40 per can

Sep 10-12:18 PM

Joe can jog 1 1/3 miles in 1/4 hour. Find his average speed in miles per hour.

$1\frac{1}{3} \div \frac{1}{4}$

$5\frac{1}{3}$ mph

$\frac{1\frac{1}{3} \text{ miles}}{\frac{1}{4} \text{ hour}}$

Sue can run 10 miles in 120 minutes (2 hours). How fast can she run in miles per hour?

$10 \div 2 = 5$ mph

$\frac{10 \text{ miles}}{2 \text{ hours}}$

Sep 10-12:25 PM

Tia is painting her shed. She paints 4 2/3 square yards in 2 hours. How many square yards can she paint in 1 hour?

$4\frac{2}{3}$ yd^2

$4\frac{2}{3} \div 2 = 2\frac{1}{3}$ yd^2 per hr.

$2\frac{1}{3}$ yd^2/hr

Sep 10-12:31 PM