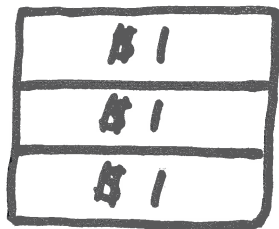


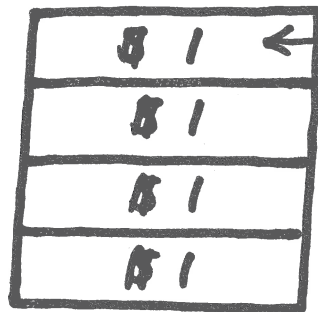
#1

\$ 2.99 (36 oz)

\$ 3.79 (48 oz)



36 oz



48 oz

$\frac{1}{3}$ more detergent

Does it cost $\frac{1}{3}$ more?



Same value if this costs \$4.

$$\$ 3.79 < \$ 4.00$$

⇒ Larger size is the better buy.

REASONING / MODEL

#2

\$ 2.99 (36 oz)
 \$ 3.79 (48 oz)

Factor - of - change

Method (symbolic)

Factor of change = $\frac{1}{3}$

$$\frac{299 \text{ ¢}}{36 \text{ oz}} \times \frac{1 \frac{1}{3}}{1 \frac{1}{3}} = \frac{400 \text{ ¢}}{48 \text{ oz}}$$



so \$ 3.79
 for 48 oz is
 the better
 buy.

SCALING UP / SYMBOLIC

#3

\$ 2.99 (36 oz)

\$ 3.79 (48 oz)

$$\frac{\$ 2.99}{36 \text{ oz}} = \frac{\$ x}{48 \text{ oz}}$$

Solve for x.

$$x = \$ 3.99$$

Since the 48 oz jug costs \$ 3.79, it is the better buy.

SET UP A PROPORTION

\$ 2.99 (36 oz)

\$ 3.79 (48 oz)

$$\frac{\$ 2.99}{36 \text{ oz}} \approx 0.083$$

$$\frac{\$ 3.79}{48 \text{ oz}} \approx 0.079$$

\$ 0.083 per oz or 8.3¢ per oz

\$ 0.079 per oz or 7.9¢ per oz

↑
Better buy

COMPARING RATIOS/
UNIT RATE METHOD

#5

\$ 2.99 (36 oz)
\$ 3.79 (48 oz)

$$\frac{36 \text{ oz}}{\$ 2.99} = 12$$

$$\frac{48 \text{ oz}}{\$ 3.79} = 12.7$$

12 oz per dollar

12.7 oz per dollar ← More
detergent
for your
dollar

COMPARING RATIOS /

UNIT RATE METHOD