1/13

(1) Surf board $133.89

A) discount

$$\begin{array}{r} 133.89 \\ \times\ 5.25 \\ \hline 66945 \\ 267780 \\ 6694500 \\ \hline 7.029325 \end{array}$$

5.25%

.0525

discount $7.13

B)

$$\begin{array}{r} 133.89 \\ 7.13 \\ \hline 126.76 \end{array}$$

C) tax

$$\begin{array}{r} 126.76 \\ \times\ 9.75 \\ \hline 63380 \\ 887320 \\ 12308400 \\ \hline 13.259100 \end{array}$$

$13.26

dis

$$\begin{array}{r} 126.76 \\ +\ 13.26 \\ \hline \$140.02 \end{array}$$

tax

② 19.25
dis 4.75%

19.25 * .0475 = .92

new price
$18.33

19.25 − .92 = 18.33

tax .08

18.33 * .08 = 1.47

final price

18.33 + 1.47 = 19.80

pay $19.80

④ $114.35

114.35 * .35 = 40.03

dis = 40.03

new price:
$74.32

114.35 − 40.03 = 74.32

74.32 * .09 = 6.69

tax $6.69

74.32 + 6.69 = 81.01

final price
$81.01

Math Quiz #13

A) discount _____

B) new price _____

C) tax _____

D) final _____

$100.00 original

30% off (discount)

5% tax

final price ...

p 539

(10) $m - \frac{1}{3} = \frac{2}{3}$

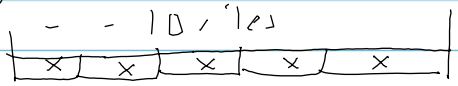
$m - \frac{1}{3} = \frac{2}{3}$
$+\frac{1}{3} \quad +\frac{1}{3}$
$m = 1 \quad \frac{3}{3}$

$1 - \frac{1}{3} = \frac{2}{3}$

(12) $s - \frac{1}{3} = \frac{7}{9}$
$+\frac{1}{3} \quad \frac{1}{3}$

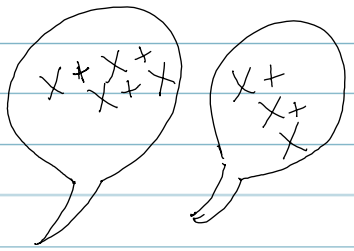
$s = \frac{10}{9} = 1\frac{1}{9}$

p. 547



← Ran 10 miles over 5 days (evenly)

$10 = x + x + x + x + x$
$10 = 5x$



$2 + 4x + 3x + 3 + 2 = 14$
$7x + 7 = 14$

$10 = 2 + 2 + 2 + 2 + 2$
$10 = 5(2)$

$$\frac{10}{5} = \frac{5x}{5}$$

$2 = 1$

$y = 5(2)$

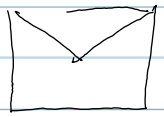
$y = 10$ ✓

$7x + 7 = 14$

mult
add

ISOLATE VARIABLE

undo everything in reverse order



grandmas letter

UNDO add by subtract →

$7x + 7 = 14$
$-7 \quad -7$

UNDO mult. by divide →

$$\frac{7x}{7} = \frac{7}{7}$$

$x = 1$

$7(1) + 7 = 14$
$14 = 14$ ✓

solved 2-step algebraic equation

Math Quiz #14

p.557

(19) $5t = 25$

(21) $3f = 12$

(23) $2.55d = 17.85$

(27) $28x = 1,764$