

BE-1B Monday 8-28-06

① Find Percent Change (NO CALCULATOR)

Ⓐ ORIGINAL: 45
NEW : 9

Ⓑ ORIGINAL: 12
NEW : 20

② SOLVE:

$$\frac{r}{5} - 3 = \frac{2r}{5} + 16$$

③ WHEN DONE WITH ①, ②,
find your MISTAKES ON QUIZ 2

HW1 = DONE

0% = 0% EVEN IF YOU COME IN!

①

Formula

AN EQUATION THAT STATES
A RELATIONSHIP between
physical properties

$$\text{EX) } C = 2\pi r$$

$$C = \pi d$$

$$F = ma$$

$$E = mc^2$$

Solve for a
variable

Get the variable by
itself. In a formula,
this means there will
usually be other variables
and numbers on the
other side of the
equals sign (instead
of just a number).

Ex 3 Pg 167

pick r, find c
↓

②

Solve $C = 2\pi r$ for r

$$\frac{C}{2} = \frac{2\pi r}{2}$$

$$\frac{C}{2} = \frac{\pi r}{\pi}$$

$$\frac{C}{2} \cdot \frac{1}{\pi} = r$$

$$\frac{C}{2\pi} = r \quad \text{or} \quad \boxed{r = \frac{C}{2\pi}} \quad \leftarrow \begin{array}{l} \text{Pick} \\ C, \\ \text{Find} \\ r \end{array}$$

$$\frac{C}{2\pi} = \frac{2\pi r}{2\pi}$$

$$\boxed{r = \frac{C}{2\pi}}$$

Ex 1 & 2 Pg 167

① Solve for y , $3x - 4y = 7$

$$\begin{array}{r} -3x \qquad \qquad -3x \\ 3x - 4y = 7 \\ \hline -4y = 7 - 3x \\ \hline -4 \qquad \qquad -4 \end{array}$$

$$y = \frac{7 - 3x}{-4}$$

better
(CHANGE ALL
SIGNS IN)

$$y = \frac{3x - 7}{4}$$

$$\frac{7 - 3x}{-4} \cdot \frac{-1}{-1}$$

② Solve for m , $2m - t = 5m + 5$

$$\begin{array}{r} -5m + t \quad -5m + t \\ 2m - t = 5m + 5 \\ \hline \end{array}$$

$$2m - 5m = t + 5$$

$$\begin{array}{r} \underline{m(2-5)} = t + 5 \\ \hline (2-5) \quad 2-5 \end{array}$$

$$m = \frac{t + 5}{2 - 5}$$

Practice:

Pg. 183 Ch 3-7, 3-8

- Read Concept Summaries
 - Do # 45-49
50-53
-

SALES TAX $\Rightarrow$ MULTIPLY BY
(ADD TO \$) decimal
ex) $8\% = .08$

DISCOUNT $\Rightarrow$ MULTIPLY
(SUBTRACT \$) By
decimal
