

: pg 33-34 : 1-39(0); #2

① subtraction

② $7-n$

③ B ⑤ A

⑦ $x+10=24$

⑨ $\frac{20}{n} \leq 2$

⑪ $10-x$

⑬ $x+9$

⑮ $\frac{x}{50}$

⑰ $x+18$

⑲ $x-7$

⑳ D ㉑ C

⑳ $x+10 \geq 44$ ㉑ $35 < 21-x$

㉒ $7x=56$ ㉓ $\frac{35}{x}=7$

㉔ $28-x=18; 10$ ㉕ $\frac{49}{x}=7; 7$

㉖ $110=55+; 2h$

㉘ $\$50$

1.6. Problem Solving Plan Using Models

Sept. 15, 2006

- modeling: writing algebraic expressions, equations, inequalities that represent "Real-Life Math"

- Verbal Model: Words Only

- algebraic Model: translation of the Verbal Model into Math (#'s & Variables)

ex1)

* Chinese Restaurant.

* Order Several $\$2.00$ Plates

* The Bill is $\$25.50$ which includes a $\$1.50$ in tax.

→ Make a Model to find the Number of Plates

Stage 1: Verbal Model:

$$\boxed{\# \text{ of Plates}} \cdot \boxed{\text{Cost Per Plate}} = \boxed{\text{Bill / Cost Total}} - \boxed{\text{Tax}}$$

Stage 2: Create Labels

Cost per Plate → $\$2.00$

of Plates → x Plates

Tax → $\$1.50$

Total Bill → $\$25.50$

Stage 3: algebraic Model:

$$x \cdot 2 = 25.50 - 1.50$$

$$\frac{2x}{2} = \frac{24.00}{2}$$

$$\underline{\underline{x = 12 \text{ plates}}}$$

ex2) * a football field is 53yds wide and 120yds long.

* a Soccer field has the Same Area, but is 60yds wide.

? How Long is the Soccer field.



Stage 1: Verbal Model
Area of F.B.F. = Area of S.F.

$$\begin{array}{|l} \text{length of} \\ \text{the F.B.F.} \end{array} \cdot \begin{array}{|l} \text{width of} \\ \text{the F.B.F.} \end{array} = \begin{array}{|l} \text{length} \\ \text{of the S.F.} \end{array} \cdot \begin{array}{|l} \text{width of} \\ \text{the S.F.} \end{array}$$

Stage 2: Create Labels

Length of the F.B.F. \rightarrow 120yds

Width of the F.B.F. \rightarrow 53yds

Length of the S.F. \rightarrow x yds

Width of the S.F. \rightarrow 60yds

Stage 3: Alg. Model

$$120 \cdot 53 = x \cdot 60$$

$$\frac{6360}{60} = \frac{60x}{60}$$

$$\underline{\underline{106 \text{ yds} = x}}$$

O.T.L.

① Write the Blue Box
ontop of Pg 37 into
your Notebooks.

② Pg 37: "at the Bottom"
Checkpoint #1. Include a
Picture

③ Pg 39: 1-10 (all)

④ Need Graph Paper
for Next Week!