

HW: SOE Word Problems/20, 22, 20

Warm up:

1) There are 812 students in a school. There are 36 more girls than boys. How many girls are there?

$$\begin{array}{l}
 g = b + 36 \\
 b + g = 812 \\
 b + b + 36 = 812 \\
 2b + 36 = 812 \\
 \underline{-36 \quad -36} \\
 2b = 776 \\
 \underline{b} = 388
 \end{array}$$

$$\begin{array}{r}
 388 \\
 + 36 \\
 \hline
 424
 \end{array}$$

424 girls

$b = 388$

2) Three pizzas and four sandwiches cost \$34. Three pizzas and seven sandwiches cost \$41.50. How much does a pizza cost?

$$\begin{array}{r}
 3p + 4s = 34 \\
 - (3p + 7s = 41.50) \\
 \hline
 -3s = -7.50 \\
 \underline{-3 \quad -3} \\
 s = 2.50
 \end{array}$$

$$\begin{array}{r}
 3p + 10 = 34 \\
 \underline{-10 \quad -10} \\
 3p = 24 \\
 \underline{p} = 8
 \end{array}$$

\$8

pg. 434/5-11 odd, 15, 17

Round Table

- 1 - Write system of equations
- 2 - Solve system of equations
- 3 - Interpret answer

⑤ 900 square units

⑦ 33 dimes

⑨ \$ 2.20

⑪ 215 child's tickets

⑮ A → \$2000

B → \$3000

⑰ grape → \$1.20

orange → \$1.50