

#### MR. LAKE

Objectives:

→applications of linear systems

Standards: 2.2, 2.5, 2.8

## Applications of Linear Systems

Chapter 7 Section 4

#### Word Problem!

Word Problem!

| Style B | Style B | Style A |
| A store sold 28 pairs of cross-training shoes for a total of \$20. Style A sold for \$70 per pair and style B sold for \$90 per Mois. How many of each style were sold?

A + 90B = 3320 -70B + 1960 + 190B = <math>3320

$$70.A + 90B = 2220 | -70B + 1960 = 2220 | -70B + 1960 = 2220 | -20B + 1$$

#### Word Problem!

 A group of 40 children attend a baseball game on a field trip. Each child received either a hot dog or bag of popcorn. Hot dogs were \$2.25 and popcorn was \$1.75.
 If the total bill was \$83.50, how many hot

dogs were bought?  

$$2.35 \times + |.75 \times = 83.50$$
  
 $-1.76 \times + |.75 \times = 83.50$   
 $-1.76 \times + |.75 \times = 13.5$   
 $-1.75 \times -|.75 \times = 13.5$ 

# Word Problem B: $\zeta = 2h + 12$

• You have a choice of two different internet companies. Company A charges \$12 per month plus \$2.00 per hour. Company B charges \$27 per month plus \$.50 per hour. How many hours would you need to use the Internet per month for the internet services to be the same price?

1.5h + 37 = 3 h + 13 
$$\frac{15}{1.5}$$
 = 1.5h + 13  $\frac{15}{1.5}$  = 1.5h + 13



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$$|OR + |5P = 32.75$$

$$P = (30 + R)$$

$$|OR + 15(.30 + R) = 32.75$$

$$|OR + 3 + 15R = 32.75$$

$$|OR + 3 + 3 + 3 = 32.75$$

$$|OR + 3 + 3 = 32.75$$

$$|OR + 3 + 3 = 32.75$$

### Homework

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