

**PROBLEM-OF-THE-DAY: ALGEBRA 1****WEEK:** September 17 to September 21**DAY:** Wednesday

**RISD Objective:** Given a word problem that involves an initial condition and a constant rate of change, students will write a first-degree equation which models the situation and use it to solve the problem.

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**PROBLEM #22**

**Print Prince is a printing company that charges a \$14.95 set-up fee and \$0.03 per copy to print brochures. Emilio is charged \$32.20 to print brochures that will be distributed to promote the annual science fair. Write an equation that models the information in the problem and use it to determine how many promotional brochures Emilio had printed.**

**MODEL SOLUTION #22**

**Let  $b$  = the number of brochures**

$$.03b + 14.95 = 32.20$$

$$3b + 1495 = 3220$$

$$3b = 1725$$

$$b = 575$$

**Emilio had 575 brochures printed at Print Prince.**