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LINEAR MODELING
COMMON CORE ALGEBRA I

Although it can be challenging, it is critically important that students who exit Algebra I have a good ability to deal with **linear relationships**. In this lesson we get more practice modeling linear phenomena.

Exercise #1: A warehouse is keeping track of its inventory of cardboard boxes. At the beginning of the month, they had a supply of 1,275 boxes left. They use boxes at a rate of 75 per day.

(a) How many boxes are left after 10 days? Show the calculation that leads to your answer.

1,275
 $1275 - 75(10)$
 $1275 - 750 = 525$

(b) Which of the following linear equations correctly models the number of boxes left, n , after d -days?

(1) $n = 75d + 1275$ (2) $n = 1275 - 75d$
 (3) $n = 1275d + 75$ (4) $n = 75d - 1275$

(c) If the warehouse needs to order more boxes when their supply reaches 150, how many days can they wait?

$\frac{150 \text{ boxes}}{75 \text{ boxes}} = 2 \text{ days}$
 boxes →
 per day

(d) If after 5 days, they start using boxes at a rate of 90 per day, how many days will it be before they run out of boxes? Show the work that leads to your answer.

$0 = 1275 - 90d$

We want to feel very comfortable with quickly and accurately determining linear models. Keep in mind that the two most important aspects of any linear model are its rate of change (slope) and its starting value (y -intercept).

Exercise #2: The cost, c , in dollars of running a particular factory that produces w -widgets can be modeled using the linear function.

$c(w) = 1.25w + 2175$

(a) How do you interpret the fact that $c(100) = 2300$?

(b) Give a physical interpretation for the two parameters in this equation, 1.25 and 2175.

COMMON CORE ALGEBRA I, UNIT #4 - LINEAR FUNCTIONS AND ARITHMETIC SEQUENCES - LESSON #7
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