- 5. [6 points] For fun, Booboo the chimpanzee likes to climb up a pole in the Ape House at the Go Blue Zoo and drop his doll Deedee. The function T(h) gives the number of seconds it takes for Deedee to hit the ground when Booboo drops her from h feet above ground level. Write an expression for each of the following new functions, in terms of the function T:
 - **a.** [2 points] R(h) is the time it takes, in minutes, for Deedee to hit the ground when dropped from h feet above ground level. (Note that 1 minute is equivalent to 60 seconds.)

$$R(h) = \underline{\hspace{1cm}}$$

b. [2 points] F(y) is the time it takes, in seconds, for Deedee to hit the ground when dropped from y yards above ground level. (Note that 1 yard is equivalent to 3 feet.)

$$F(y) = \underline{\hspace{1cm}}$$

c. [2 points] There is a small platform mounted on the pole 8 feet up from the ground. Sometimes Deedee lands there instead of the ground. The function P(h) gives the time, in seconds, for Deedee to hit the platform when dropped from h feet above ground level. If we want to express P(h) in terms of the function T, circle the best option below.

$$P(h) = T(h+8)$$
 $P(h) = T(h-8)$ $P(h) = T(h) + 8$ $P(h) = T(h) - 8$