Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sect \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Linear Functions:

Executives Inc. needs to order new business cards for their new employee. The print shop charges a set-up fee of $50, plus $1.25 per business card. Write a linear function in the form

y = mx + b to represent the relationship between business cards and cost.

If the company orders 500 business cards, how much will the cost be?

Tayshaun collects action figures, and orders most of his collection from online retailers. Coolguys.net charges $12.50 per action figure, plus a shipping charge of $5.99. Write a linear function in the form y = mx + b to represent the relationship between action figures and cost.

Would it be a better deal for Tayshaun to order 3 action figures this week, and place a separate order for 2 more action figures next week; or would it be better to order all five action figures on one order. Show your work.