



# Hockey Pucks

1. You have invented an inflatable hockey puck. You are beginning to get a lot of requests from youth hockey teams, and your company has developed some packing tubes to ship them safely. Each shipping tube holds ten deflated pucks, and can be filled with shredded paper for a partial order.

a. How many packing tubes would you need if someone orders

10 pucks?

14 pucks?

26 pucks?

b. What fraction of the partially filled tube would be **unfilled** in the order for 26 pucks? What percentage?

2. Your pucks become so popular that stores begin ordering them. Your company develops a packing tube that holds 60 pucks, in order to accommodate these larger orders.

a. How many packing tubes would you need if a store orders

120 pucks?

200 pucks?

520 pucks?

b. What fraction of the partially filled tube would be **unfilled** in the order for 200 pucks? What percentage?