

Selling Tinker Kits

A local store, *Makers on Main*, makes and sells tinker kits. The table below shows the cost of the materials used to make each kit.

Name of Kit	Cost of Materials
Paint Sprayer	\$13.00
Mini Robot	\$16.50
Personalized Patch	\$9.00

The manager sets the sales price (what customer pays) for each kit by marking up the cost of the materials by 35% and then rounding to the nearest \$0.25 (nearest quarter 0.25, 0.50, or 0.75).

1) Find the price of the Paint Sprayer Kit (after the markup).

2) When a customer buys a kit, a sales tax of 8% is added. What is the total cost for the Mini Robot Kit after sales tax is added?

3) *Makers on Main* is planning a customer appreciation event with games, prizes, and special sales. They have a database of 3,500 customers. They survey a random sample of 125 customers from the database, and twenty-five say they plan to attend. About how many of the 3,500 customers can the store expect at the event?

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Remember:

35% markup

8% sales tax

4) The store manager says that the price a customer pays, including sales tax, is never more than 50% greater than the cost of the materials. Matteo says if that's true, then the price of a Personalized Patch is too high.

Do you agree or disagree with Matteo? Explain your reasoning.