



# worksheet **3**

## Clothing Designer

In the DVD program, *The Math Path*, examples are given of how different careers would be affected in a world without math. Here are some suggested problems for your students to solve to see how math is used in various careers and its importance to our daily lives.

### Clothing Designer

You've made it! You are the new "hip" designer and have opened your own production facility. Your new line is due in weeks. Complete the following to ensure you meet your deadline.

1. You need  $2 \frac{1}{8}$  yards of fabric to make a dress. How much fabric do you need to make 3 dresses?
2. If the fabric costs \$5.50 per yard, how much will it cost to make the 3 dresses?
3. You are trying to determine the best price for new software to help with your fashion designs. You have found 5 different options. The mean cost was \$79. The cost of the first four software programs are \$75, \$83, \$85 and \$75. How much does the 5th program cost?
4. You need to advertise your designs in fashion publications. The cost of an ad in *I Like Your Style* is \$2,345.67. The cost of an ad in *Best Dressed* is \$4,286.89. How much more is the ad in *Best Dressed* than the ad in *I Like Your Style*?
5. You spent \$29 buying 5 sets of buttons for your latest line of dresses. You paid \$4.20 for 1 set of buttons and \$4.45 each for 2 more sets of buttons. If the other sets of buttons cost the same, how much did you spend on each of them?
6. You are hosting a fashion show to present your new designs in the local auditorium. Each row in the auditorium seats 35 people. How many people in all could be seated at one time in the 16 rows?
7. You bought supplies for your latest design project. The price of your supplies was \$567.89 plus 6% tax. How much did you pay in all?
8. You are packing boxes of clothes into a crate to ship to a retailer in France. The crate is  $5 \frac{1}{4}$  ft. x  $2 \frac{7}{8}$  ft. x  $1 \frac{1}{4}$  ft. The boxes are 4 in. x 6 in. x 5 in. How many boxes will fit in the crate?
9. You have been hired to make 14 dresses. You need 38.5 yards of fabric. How many yards do you need for each dress?
10. You can trim 10 blouses with  $1 \frac{1}{4}$  yards of lace. How many blouses can you trim with 6 yards of lace?