

Name \_\_\_\_\_

PROBLEM SOLVING

# Estimation

You are the set designer for a play. Below is a list of prices of the supplies that you need.

paint	\$9.76 per gallon	wood	\$1.68 per foot
fabric	\$4.15 per yard	nails	\$1.89 per box
canvas	\$30.45 per roll	rope	\$2.30 per yard
brushes	\$5.20 each	masking tape	\$0.90 per roll

Use estimation or find the exact answer as the problem requires.

1. A lumberyard has offered to supply \$200 worth of free merchandise. Your design calls for 100 feet of wood and 12 boxes of nails. Could you get 5 more feet of wood without having to pay the lumberyard any money?

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2. You need 76 yards of fabric and 9 rolls of canvas. The store gives a discount on any order that totals more than \$600. How many more rolls of canvas would you have to buy to qualify for the discount?

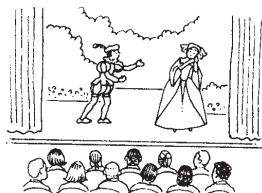
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3. You have brought \$300 to the hardware store. You want to buy 21 gallons of paint, 6 brushes, and 12 rolls of masking tape. Do you have enough money to buy 30 yards of rope as well?

\_\_\_\_\_
4. You wrote checks for 5 yards of fabric to Cloth Cutters, Inc., and for 10 yards of rope to Ward Hardware. You forgot to fill in the names. Which store should have received the check for the larger amount?

\_\_\_\_\_
5. A friend has asked you to order some supplies for him. He wants 2 gallons of paint, one brush, and 54 feet of wood. He wants to spend about the same amount on canvas as he spends on the above items. How many rolls should you order for him?

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6. You need 4 new curtains. Each will use 12 yards of fabric, and each will need 10 yards of rope. Your budget is \$275. Will this be enough?

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# Problem Solving Estimation

## Answer Key

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1. yes
2. one more roll
3. no
4. Ward Hardware
5. 4
6. no

