

| Algebra 1 Modeling Real-Life Situations with Equations | | Name: | | |
|--|--|---------------------|---------------------|--------------------|
| | | | # : | |
| | e an equation to model each situation. Define y ion, then solve. Be sure to answer the question | | ig a "Let" stateme | ent, write an |
| 1. | In 1999, 189 physical therapists ran the NYC Mengineers who ran. How many engineers ran in | | s 1048 fewer than t | he number of |
| 2. | During the first half of a basketball game, a tear are 2 points each. How many field goals did the | | . They made only | field goals, which |
| | | | | |
| 3. | Jessica has \$50.00 she wants to spend on CDs, she afford to buy? | which are on sale 1 | for \$13.50 each. H | ow many CDs car |
| | | | | |
| 4. | A stack of 12 bricks is 27 inches high. What is | the height of each | brick? | |
| 5. | The sum of Jan's and Sara's age is 33 years. If | Sara is 15 years ol | d, how old is Jan? | |
| 6. | Suppose you want to buy one pair of pants and socks are \$5.00 per pair. How many pairs of so | * | * | |



| 7. | A gardener is planning a rectangular garden area in a community garden. His garden will next to an existing 12-ft fence. The gardener has a total of 44 ft of fencing to build the other three sides of his garden. How long will the sides of the garden be if the width is 12 ft? |
|----|---|
| 8. | You are fencing a rectangle puppy kennel with 25 ft of fence. The side of the kennel against your |
| | house does not need a fence. This side is 9 ft. long. Find the dimensions of the kennel. |
| 9. | John needs to rent a moving truck. Suppose company A charges a rate of \$40 per day and Company E charges a rate of \$60 plus \$20 per day. For what number of days is the cost the same? |
| | |
| 10 | A hairdresser is considering ordering a certain shampoo. Company A charges \$4 per bottle plus a \$10 handling fee per order. Company B charges \$3 per bottle plus a \$25 handling fee. How many bottles must the hairdresser buy to justify using Company B? |
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