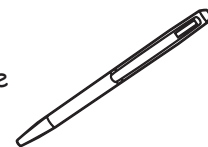





Warm-Up 7

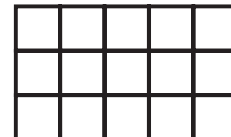


1. \$ _____ Pens cost 95 cents each or \$9.95 for a dozen. What is the least possible cost, in dollars, of 40 pens?
2. _____ minutes In solving a puzzle, John used nine fewer than twice the number of minutes that Dawn used. If the sum of the number of minutes it took each of them to solve the puzzle was 30 minutes, how many minutes did it take John to solve the puzzle?
3. _____ % Last year a bicycle cost \$160 and a cycling helmet cost \$40. This year the cost of the bicycle increased by 5% and the cost of the helmet increased by 10%. What is the percent increase in the combined cost of the bicycle and the helmet?
4. _____ cu in Tammy has a rectangular piece of cardboard 17 inches by 35 inches. She will cut squares of sides 3 inches by 3 inches from each of the four corners. She will then fold up the four sides and tape them to make an open rectangular box. If a flat lid is put over the box, what is the volume inside of the box?

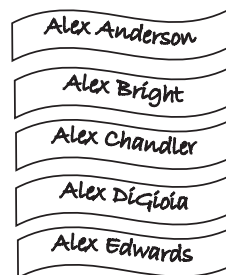


5. \$ _____  Alice bought two pounds of apples and three pounds of bananas for \$5.80. A little while later she bought another pound of apples and two more pounds of bananas for \$3.42. How much would she have to pay for one pound of apples and one pound of bananas?

6. _____ inches A rectangular tabletop is tiled with a 3-by-5 array of small square tiles. The area of each tile is 16 square inches. What is the perimeter of the tabletop, in inches?
7. \$ _____ Harry and Mary are eating in a restaurant. Harry's meal costs twice as much as Mary's. Mary leaves a tip of 20% of the cost of her meal and Harry leaves a tip of 15% of the cost of his meal. The total cost of the two meals, including tips, is \$70. What was the cost of Mary's meal before the tip was added?



8. _____ Each of 26 students had a first name starting with a different letter of the alphabet. Each student was asked to think up 26 last names, using each letter of the alphabet as the first letter of a last name once. All first and last name pairings were written on pieces of paper and put in a box. (Alex's first five pieces of paper are shown here.) The teacher takes one name out of the box. If "y" is considered a consonant, what is the probability that the first or last name on the paper started with a consonant? Express your answer as a common fraction.



9. _____ Bobby has an integer. If he multiplies it by 4 and then subtracts 12 he has twice as much as he would have if he subtracts 12 and then multiplies by 4. What is the sum of the digits of Bobby's integer?
10. _____ What is the mean of all the positive three-digit multiples of 3 that are less than 200?