

Ice Cream
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Stefan spent \$33 on eating utensils. Spoons cost \$4 and forks cost \$3. If he bought a total of 9 then how many of each kind did he buy?

5) Darryl spent \$276 on books. Math books cost \$21 and English books cost \$30. If he bought a total of 11 then how many of each kind did he buy?

7) A class of 174 students went on a field trip. They took 9 vehicles, some vans and some buses. Find the number of vans and the number of buses they took if each van holds 6 students and each bus hold 30 students.

9) Castel spent \$16 on writing utensils. Pens cost \$5 and pencils cost \$3. If he bought a total of 4 then how many of each kind did he buy?

4) Beth spent \$480 on pairs of pants. Dress pants cost \$100 and jeans cost \$60. If she bought a total of 6 then how many of each kind did she buy?

6) Kim bought 7 shirts for a total of \$95. Fancy shirts cost \$25 and plain shirts cost \$9. How many of each type of shirt did she buy?

8) A class of 150 students went on a field trip. They took 7 vehicles, some vans and some buses. Find the number of vans and the number of buses they took if each van holds 10 students and each bus hold 50 students.

10) All 350 students in the Math Club went on a field trip. Some students rode in cars which hold 5 students each and some students rode in buses which hold 55 students each. How many of each type of vehicle did they use if there were 10 vehicles total?

5. Two friends, Amanda and Nicole, are growing out their hair. They plan to cut it off at a certain point and donate it to a charity that makes wigs for people with cancer. Amanda's hair is already 29 centimeters long and grows at a constant rate of 2 centimeters per month. Nicole's hair is 38 centimeters and growing at a speed of 1 centimeter per month. If the girls get their hair cut on a certain day, they will have exactly the same length to donate. How long will their hair be? How long will that take?

Like BOWLING Alleys (substitution)

6. Zack is going to send some flowers to his wife. Lancaster Florist charges \$2 per rose, plus \$9 for the vase. Kayla's Flowers, in contrast, charges \$1 per rose and \$34 for the vase. If Zack orders the bouquet with a certain number of roses, the cost will be the same with either flower shop. What would the total cost be? How many roses would there be?

7. A charity is considering the possibility of having a benefit night at two different restaurants. The owner of the local Italian restaurant has offered to make a donation of \$989 and \$1 per diner that night. On the other hand, the owner of the Mexican restaurant has said he could contribute \$69 plus \$6 per diner. Based on the number of diners who have promised to participate in the event, it appears that each restaurant would donate the same total amount. How much would each restaurant donate? How many diners promised to participate?

8. Kate and her friend Jennifer are knitting scarves for the homeless. Kate had already completed 2 scarves and has committed to making 5 more scarves per day. Jennifer, who hasn't completed any scarves yet, has more free time and can make 6 scarves per day. At some point, Jennifer will catch up and they will both have completed the same number of scarves. How long will that take? How many scarves will each woman have finished?