

**Solve each problem.****Answers**

- 1) A deluxe bakery sells a cookie for \$4.11, a brownie for \$2.60 and a cake for \$30.78. On Wednesday they sold 13 cookies, 8 brownies and 3 cakes. The cost in ingredients for each cookie is \$1.55, for each brownie is \$0.45 and for each cake is \$3.70. How much profit did they make on Wednesday?
  
- 2) A recycling center was offering cash for different types of recyclables. For each pound of paper recycled they offered \$1.86, for each pound of aluminum they offered \$1.41 and for each pound of plastic they offered \$0.55. George took in 14 pounds of paper, 6 pounds of aluminum and 9 pounds of plastic. How much money did he earn?
  
- 3) A restaurant chef was ordering supplies. He ordered 4 pounds of beef at \$6.90 per pound, 5 pounds of potatoes at \$9.78 a pound and 7 pounds of carrots at \$6.44 per pound. He estimates that this will make 27 meals. If he charges \$41.11 per meal how much profit will he make?
  
- 4) A new pizza shop opened up and started out \$6,003.08 in the hole. Their first month being open they sold 62 pizzas (\$6.12 profit each) and 90 sodas (\$2.08 profit each). Their bills for the first month were \$1,772.87. How much money do they still need to make to break even?
  
- 5) At noon the temperature was  $-2^{\circ}$  C. Over the next 5 hours the temperature dropped another 2 degrees. Then every hour until 4:00 the temperature rose 3 degrees. What was the temperature at 4:00?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_



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Answers

- 1) A deluxe bakery sells a cookie for \$4.11, a brownie for \$2.60 and a cake for \$30.78. On Wednesday they sold 13 cookies, 8 brownies and 3 cakes. The cost in ingredients for each cookie is \$1.55, for each brownie is \$0.45 and for each cake is \$3.70. How much profit did they make on Wednesday?

$$((13 \times 4.11) + (8 \times 2.6) + (3 \times 30.78)) - ((13 \times 1.55) + (8 \times 0.45) + (3 \times 3.7))$$

1. 131.72

- 2) A recycling center was offering cash for different types of recyclables. For each pound of paper recycled they offered \$1.86, for each pound of aluminum they offered \$1.41 and for each pound of plastic they offered \$0.55. George took in 14 pounds of paper, 6 pounds of aluminum and 9 pounds of plastic. How much money did he earn?

$$(1.86 \times 14) + (1.41 \times 6) + (0.55 \times 9)$$

2. 39.453. 988.39

- 3) A restaurant chef was ordering supplies. He ordered 4 pounds of beef at \$6.90 per pound, 5 pounds of potatoes at \$9.78 a pound and 7 pounds of carrots at \$6.44 per pound. He estimates that this will make 27 meals. If he charges \$41.11 per meal how much profit will he make?

$$(27 \times 41.11) - ((4 \times 6.9) + (5 \times 9.78) + (7 \times 6.44))$$

4. -7,209.315. 5

- 4) A new pizza shop opened up and started out \$6,003.08 in the hole. Their first month being open they sold 62 pizzas (\$6.12 profit each) and 90 sodas (\$2.08 profit each). Their bills for the first month were \$1,772.87. How much money do they still need to make to break even?

$$(6003.08 \times -1) + ((62 \times 6.12) + (90 \times 2.08)) - (1772.87)$$

- 5) At noon the temperature was  $-2^{\circ}$  C. Over the next 5 hours the temperature dropped another 2 degrees. Then every hour until 4:00 the temperature rose 3 degrees. What was the temperature at 4:00?

$$-2 + (-1 \times 2) + ((8 - 5) \times 3)$$