

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

- 1) A restaurant chef was ordering supplies. He ordered 5 pounds of beef at \$8.80 per pound, 6 pounds of potatoes at \$7.09 a pound and 5 pounds of carrots at \$7.19 per pound. He estimates that this will make 28 meals. If he charges \$34.97 per meal how much profit will he make?
- 2) A deluxe bakery sells a cookie for \$3.41, a brownie for \$4.88 and a cake for \$19.71. On Wednesday they sold 15 cookies, 6 brownies and 3 cakes. The cost in ingredients for each cookie is \$1.46, for each brownie is \$0.16 and for each cake is \$8.23. How much profit did they make on Wednesday?
- 3) At noon the temperature was  $-4^{\circ}\text{C}$ . Over the next 2 hours the temperature dropped another 14 degrees. Then every hour until 4:00 the temperature rose 2 degrees. What was the temperature at 4:00?
- 4) Maria was playing a trivia game where you gained points for correct answers and lost points for incorrect answers. At the start of round 3 she was at -100 points. During the round she answered 5 500 point questions correct and she answered 5 800 points questions incorrect. What was her score at the end of the round?
- 5) At the state fair 8 employees were paid \$9.04 an hour. They worked for 10 hours at regular price and then for 4 hours at overtime price (an extra \$3.21 an hour). How much money did they make total?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_



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**Answers**

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$$(28 \times 34.97) - ((5 \times 8.80) + (6 \times 7.09) + (5 \times 7.19))$$

1. **856.67**2. **92.01**3. **-12**4. **-1,600**

- 2) A deluxe bakery sells a cookie for \$3.41, a brownie for \$4.88 and a cake for \$19.71. On Wednesday they sold 15 cookies, 6 brownies and 3 cakes. The cost in ingredients for each cookie is \$1.46, for each brownie is \$0.16 and for each cake is \$8.23. How much profit did they make on Wednesday?

$$((15 \times 3.41) + (6 \times 4.88) + (3 \times 19.71)) - ((15 \times 1.46) + (6 \times 0.16) + (3 \times 8.23))$$

5. **1,115.2**

- 3) At noon the temperature was  $-4^{\circ}\text{C}$ . Over the next 2 hours the temperature dropped another 14 degrees. Then every hour until 4:00 the temperature rose 2 degrees. What was the temperature at 4:00?

$$-4 + (-1 \times 14) + ((5 - 2) \times 2)$$

- 4) Maria was playing a trivia game where you gained points for correct answers and lost points for incorrect answers. At the start of round 3 she was at -100 points. During the round she answered 5 500 point questions correct and she answered 5 800 points questions incorrect. What was her score at the end of the round?

$$-100 + (5 \times 500) + (5 \times 800 \times -1)$$

- 5) At the state fair 8 employees were paid \$9.04 an hour. They worked for 10 hours at regular price and then for 4 hours at overtime price (an extra \$3.21 an hour). How much money did they make total?

$$(8 \times 9.04 \times 10) + ((3.21 + 9.04) \times 4 \times 8)$$