

DEPARTMENT MEETING

Venue: _____

Date/Time: _____

Title: _____

[illegible]

Chemistry

Stoichiometry



How many moles of CO_2 are produced from 5 moles of CaCO_3 ?



DEFINITION

- Stoichiometry studies the numerical relationships between reactants and products in chemical reactions using balanced equations.
- It follows the law of conservation of mass.
- Matter is not created or destroyed in a reaction.

PURPOSE

- Balanced equations provide mole ratios, which are the foundation of all stoichiometric calculations.

Mass \rightarrow Moles \rightarrow Ratio \rightarrow Moles \rightarrow Mass

APPLICATIONS

- Medicine production
- Food processing
- Engineering materials
- Environmental treatment

CLUB ATTENDANCE

Venue:

Date:

[illegible]

[illegible]

Math Worksheet

Name: _____ Class: _____

Solve for x. Show your work. Convert fractions to decimals rounded to two places.

<div>1) $3x + 5 - 2x + 7 = 20$</div> <div>Final Answer:</div>	<div>2) $4x - 3 + 2x + 9 = 30$</div> <div>Final Answer:</div>
<div>3) $6x + 4 - 3x - 10 = 5$</div> <div>Final Answer:</div>	<div>4) $5x - 8 + 2x + 6 = 27$</div> <div>Final Answer:</div>
<div>5) $7x + 3 - 4x + 9 = 24$</div> <div>Final Answer:</div>	<div>6) $2x + 6 - x + 10 = 25$</div> <div>Final Answer:</div>
<div>7) $9x - 5 + 3x + 1 = 37$</div> <div>Final Answer:</div>	<div>8) $8x + 4 - 2x + 12 = 40$</div> <div>Final Answer:</div>
<div>9) $10x - 6 + 2x - 8 = 46$</div> <div>Final Answer:</div>	<div>10) $3x + 9 - x + 11 = 36$</div> <div>Final Answer:</div>

Math Worksheet Answer Key

Name: _____ Class: _____

Solve for x. Show your work. Convert fractions to decimals rounded to two places.

<div>1) $3x + 5 - 2x + 7 = 20$ $x + 12 = 20$ $x = 8$</div> <div>Final Answer: $x = 8$</div>	<div>2) $4x - 3 + 2x + 9 = 30$ $6x + 6 = 30$ $6x = 24$ $x = 4$</div> <div>Final Answer: $x = 4$</div>
<div>3) $6x + 4 - 3x - 10 = 5$ $3x - 6 = 5$ $3x = 11$ $x = 11/3 \approx 3.67$</div> <div>Final Answer: $x \approx 3.67$</div>	<div>4) $5x - 8 + 2x + 6 = 27$ $7x - 2 = 27$ $7x = 29$ $x = 29/7 \approx 4.14$</div> <div>Final Answer: $x \approx 4.14$</div>
<div>5) $7x + 3 - 4x + 9 = 24$ $3x + 12 = 24$ $3x = 12$ $x = 4$</div> <div>Final Answer: $x = 4$</div>	<div>6) $2x + 6 - x + 10 = 25$ $x + 16 = 25$ $x = 9$</div> <div>Final Answer: $x = 9$</div>
<div>7) $9x - 5 + 3x + 1 = 37$ $12x - 4 = 37$ $12x = 41$ $x = 41/12 \approx 3.42$</div> <div>Final Answer: $x \approx 3.42$</div>	<div>8) $8x + 4 - 2x + 12 = 40$ $6x + 16 = 40$ $6x = 24$ $x = 4$</div> <div>Final Answer: $x = 4$</div>
<div>9) $10x - 6 + 2x - 8 = 46$ $12x - 14 = 46$ $12x = 60$ $x = 5$</div> <div>Final Answer: $x = 5$</div>	<div>10) $3x + 9 - x + 11 = 36$ $2x + 20 = 36$ $2x = 16$ $x = 8$</div> <div>Final Answer: $x = 8$</div>

Reading List

[illegible]

STUDY SCHEDULE

DATE

T O P I C

The image displays a vertical arrangement of 12 identical white, rounded rectangular labels. These labels are organized into two parallel columns, each containing six labels. The labels are positioned such that they are separated by thin black horizontal lines, and the entire set is centered against a solid black background. The labels are empty, providing a clean template for text or graphics.