Lesson 17: Solving Compound Inequalities

Directions: Solve each compound inequality and use a pencil to DRAW the object that corresponds with your answer. SHOW YOUR STEPS!!!

. 4≤x+2≤7	2. x+6>4	3. $x+6 \le 10$ or $x-2 \ge 3$
(a) If your answer is 2 ≤ x ≤ 5 draw the	(a) If your answer is x>10 draw the	(a) If your enswer is x ≤ 5 or x ≥ 4 draw the following eyes inside the mask.
following ears. (b) If your answer is $6 \le x \le 9$ draw the following ears.	following morkel mask. (b) If your answer is	(b) If your answer is x ≤ 4 or x ≥ 5 draw the following eyes inside the mask.
1. $-3 \ge -3x \ge -9$	5. $5x \le -15$ or $2x \ge 6$	615 < x - 7
(a) If your answer is -6 ≤ x ≤ 0 draw the	(a) If your answer is x ≤ 3 or x ≥ -3 draw the following · snorkel.	(a) If your answer is -8<× draw TWO bubbles coming out of the smorkel.
following eyebrows. (b) If your answer is $1 \le x \le 3$ draw the fellowing eyebrows.	(b) If your answer is x ≤ -3 or x ≥ 3 draw the following snorkel.	(b) If your answer is -8>x draw LOTS of bubbles coming out of the snoricel.
7. $ x + 6 = 5$	8. 5 < x-1 < 7	92 < 1 - x < 5
(a) If your answer is x=-1, -11 draw the following hair.	(a) If your answer is 6 < x < 8 draw seaweed in the background.	(a) If your enswer is -3 < x < 4 draw an octopus in the background.
(b) If your answer is x=1 draw the following bair.	(b) If your snawer is 4 < x < 6 draw coral in the background.	(b) If your answer is -4 < x < 3 draw a jellyfish in the background.
10. $-2 \ge -2x - 4 \ge -6$	119x <18 or x + 5 < -2	12. $ 3x - 2 = 4$
(a) If your answer is -2 ≤ x ≤ 2 draw a seashell in the background.	(a) If your answer is x < -7 or x > -2 draw a school of fish in the background.	(a) If your answer is x=2, -2 draw a wnase in the background.
(b) If your answer is -1 ≤ x ≤ 1 draw a starfish in the background.	(b) If your answer is x < -9 or x > -7 draw TWO fish in the	(b) If your answer is 8=2 draw a shark in the background.

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- 1. Understanding the eBook Facing Math Lesson 1 Algebraic Expressions
 - The Rise of Digital Reading Facing Math Lesson 1 Algebraic Expressions
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Facing Math Lesson 1 Algebraic Expressions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Facing Math Lesson 1 Algebraic Expressions
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Facing Math Lesson 1 Algebraic Expressions
 - Personalized Recommendations
 - Facing Math Lesson 1 Algebraic Expressions User Reviews and Ratings
 - Facing Math Lesson 1 Algebraic Expressions and Bestseller Lists

- 5. Accessing Facing Math Lesson 1 Algebraic Expressions Free and Paid eBooks
 - Facing Math Lesson 1 Algebraic Expressions Public Domain eBooks
 - Facing Math Lesson 1 Algebraic Expressions eBook Subscription Services
 - Facing Math Lesson 1 Algebraic Expressions Budget-Friendly Options
- 6. Navigating Facing Math Lesson 1 Algebraic Expressions eBook Formats
 - o ePub, PDF, MOBI, and More
 - Facing Math Lesson 1 Algebraic Expressions Compatibility with Devices
 - Facing Math Lesson 1 Algebraic Expressions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Facing Math Lesson 1 Algebraic Expressions
 - Highlighting and Note-Taking Facing Math Lesson 1 Algebraic Expressions
 - Interactive Elements Facing Math Lesson 1 Algebraic Expressions
- 8. Staying Engaged with Facing Math Lesson 1 Algebraic Expressions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Facing Math Lesson 1 Algebraic Expressions
- 9. Balancing eBooks and Physical Books Facing Math Lesson 1 Algebraic Expressions
 - \circ Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection Facing Math Lesson 1 Algebraic Expressions
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Facing Math Lesson 1 Algebraic Expressions
 - Setting Reading Goals Facing Math Lesson 1 Algebraic Expressions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Facing Math Lesson 1 Algebraic Expressions
 - Fact-Checking eBook Content of Facing Math Lesson 1 Algebraic Expressions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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