

Algebraic Inequalities



Name Class Date What does the circle by the number 4 What does the sign ≤ mean? 2 on the number line shown mean? A greater than **B** less than C greater than or equal to D less than or equal to A That 4 is part of the answer. **B** That 4 is not part of the answer. C That 4 is double two. D The answer is less than 4. 3 When an **inequality** is multiplied or What does the circle by the number -2 4 on the number line shown mean? divided by a negative number, the sign stays the same. -4 -3 -2 -1 0 True or false? A That -2 is not part of the answer. A true B The answer is greater than -2. **B** false C That -2 is part of the answer. D That -2 is greater than 0. 5 What is the answer shown on 6 What is the answer shown on the number line? the number line? $\mathbf{A} \times \mathbf{8}$ **A** x < -3**B** x > 8**B** x > -3 $\mathbf{C} x \leq 8$ $C x \le -3$ **D** $x \ge 8$ $\mathbf{D} X \ge -3$ What is the answer shown on 8 Which statement represents x is less the number line? than or equal to five? $\mathbf{A} \times 6$ $\mathbf{A} \times 5$ $\mathbf{B} x > 6$ $\mathbf{B} x > 5$ $C X \le 6$ $\mathbf{C} \ x \le 5$ **D** $X \ge 6$ $\mathbf{D} X \ge 5$ 9 Which statement represents six is 10 Which statement represents three times a number plus 12 is less than greater than two times a number? or equal to 48? $\mathbf{A} 6 < 2x$ **B** 6 > 2 + X**A** $3x + 12 \le 48$ **B** $3x + 12 \ge 48$ $C6 \ge 2 + x$ **D** 6 > 2x**C** $3x \le 48 + 12$ **D** $3x \ge 48 - 12$



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1	What does the sign ≤ mean? A greater than B less than C greater than or equal to D less than or equal to	D	on the number the state of the	rt of the answer. t part of the answer. uble two.	B
3	What does the circle by the number -2 on the number line shown mean? A That -2 is not part of the answer. B The answer is greater than -2. C That -2 is part of the answer. D That -2 is greater than 0.	C			B
5	What is the answer shown on the number line ? A $x < 8$ B $x > 8$ C $x \le 8$ D $x \ge 8$	A	What is the and the number line A $X < -3$ B $X > -3$ C $X \le -3$ D $X \ge -3$		D
7	What is the answer shown on the number line? A $x < 6$ B $x > 6$ 3 4 5 6 7 8 9 C $x \le 6$ D $x \ge 6$	B	Which statement than or equal A $x < 5$ B $x > 5$ C $x \le 5$ D $x \ge 5$	ent represents <i>x</i> is less to five?	C
9	Which statement represents six is greater than two times a number? A $6 < 2x$ B $6 > 2 + x$ C $6 \ge 2 + x$ D $6 > 2x$	D		3 3 2	A