

Inequality Practice

Name: _____

Date: _____

Question 1

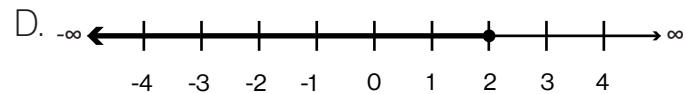
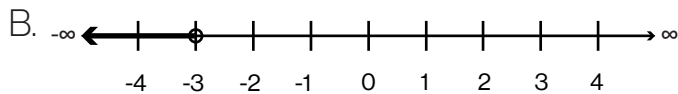
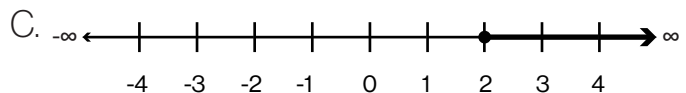
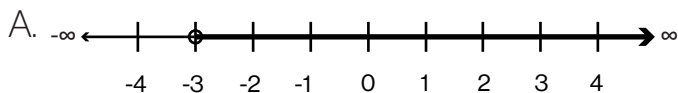
Complete the mathematical sentences using either the = or $\neq$ symbols

- I. $4 \square 2^2$ IV. $55 \div 11 \square 25 \div 2.5$ VII. $9.5 \cdot \frac{54}{108} \square 4 \cdot \frac{120}{160}$
- II. $5 \square -5$ V. $72 \cdot 30 \square 20 \cdot 108$
- III. $1 \square 75^\circ$ VI. $\frac{5}{35} \square \frac{75}{425}$ VIII. $4^2 \square -|(-4)^2|$

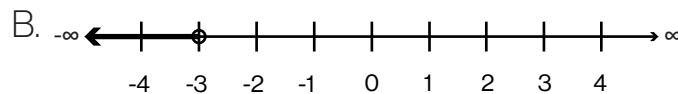
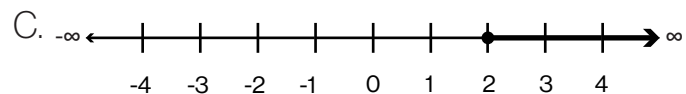
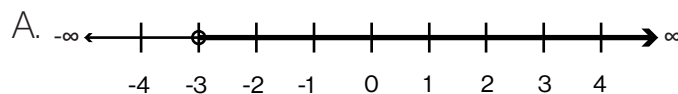
Question 2

Select the number line that corresponds to the inequality

I. $X > -3$



II. $X \leq 2$



Inequality Practice

Question 3

Complete the mathematical sentences using either the < or > symbols

I. $3 \square -3$

VI. $3+30 \square 3+40$

II. $-15 \square -10$

VII. $4\frac{7}{17} \square 2\frac{54}{56}$

III. $10 \square 100$

VIII. $75-2^2 \square 95-3^3$

IV. $13 \square 31$

IX. $4^2 \div 2 \square 2^2 \div 4^2$

V. $-71 \square -70$

X. $(6)^2 \square (-6)^3$

Inequality Practice

Name: Key

Date: _____

Question 1

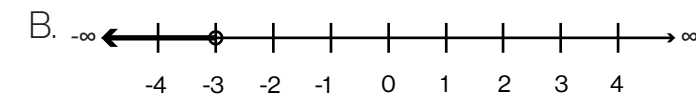
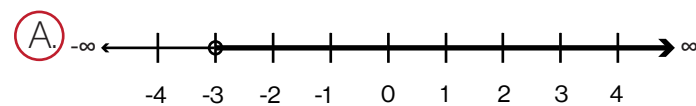
Complete the mathematical sentences using either the = or ≠ symbols

- I. $4 \boxed{=} 2^2$
 $\downarrow$
 4
- II. $5 \boxed{\neq} -5$
- III. $1 \boxed{=} 75^0$
 $\downarrow$
 1
- IV. $55 \div 11 \boxed{\neq} 25 \div 2.5$
 $\downarrow \quad \quad \downarrow$
 $5 \quad \quad 10$
- V. $72 \cdot 30 \boxed{=} 20 \cdot 108$
 $\downarrow \quad \quad \downarrow$
 $2160 \quad \quad 2160$
- VI. $\frac{5}{35} \boxed{\neq} \frac{75}{425}$
 $\downarrow \quad \quad \downarrow$
 $0.143 \quad \quad 0.176$
- VII. $9.5 \cdot \frac{54}{108} \boxed{\neq} 4 \cdot \frac{120}{160}$
 $\downarrow \quad \text{convert} \quad \quad \downarrow \quad \text{convert}$
 $9.5 \cdot 0.5 \quad \quad 4 \cdot 0.75$
 $\downarrow \quad \quad \downarrow$
 $4.75 \quad \quad 3$
- VIII. $4^2 \boxed{\neq} -|(-4)^2|$
 $\downarrow \quad \quad \downarrow$
 $16 \quad \quad -16$

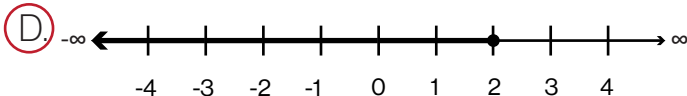
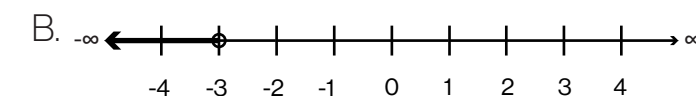
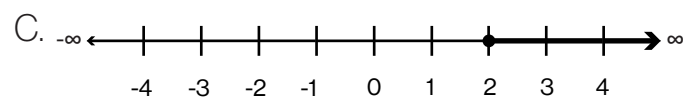
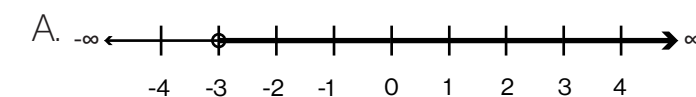
Question 2

Select the number line that corresponds to the inequality

I. $X > -3$



II. $X \leq 2$



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Question 3

Complete the mathematical sentences using either the < or > symbols

I. $3 \boxed{>} -3$

VI. $3 + 30 \boxed{<} 3 + 40$
 $\downarrow \qquad \qquad \downarrow$
 $33 \qquad \qquad 43$

II. $-15 \boxed{<} -10$

VII. $4 \frac{7}{17} \boxed{>} 2 \frac{54}{56}$

III. $10 \boxed{<} 100$

VIII. $75 - 2^2 \boxed{>} 95 - 3^3$
 $\downarrow \qquad \qquad \downarrow$
 $75 - 4 \qquad \qquad 95 - 27$
 $\downarrow \qquad \qquad \downarrow$
 $71 \qquad \qquad 68$

IV. $13 \boxed{<} 31$

IX. $4^2 \div 2 \boxed{>} 2^2 \div 4^2$
 $\downarrow \qquad \qquad \downarrow$
 $16 \div 2 \qquad \qquad 4 \div 16$
 $\downarrow \qquad \qquad \downarrow$
 $8 \qquad \qquad 0.25$

V. $-71 \boxed{<} -70$

X. $(6)^2 \boxed{>} (-6)^3$
 $\downarrow \qquad \qquad \downarrow$
 $36 \qquad \qquad -216$