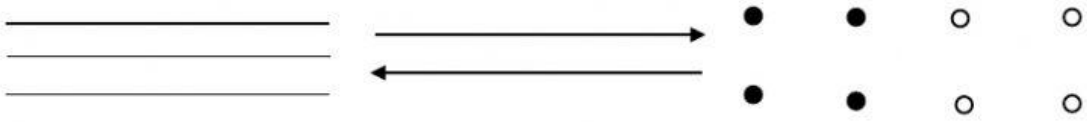
QUESTIONS 3.1

1. Rewrite each of the following inequalities using interval notation and show each one on the real number line. Write the correct answers in the boxes. Drag and drop the correct dots and lines to create your real number line.



(a) $3 < x < 7$

Interval notation: ☐

Real number line:



(b) $-2.5 \leq t \leq 5$

Interval notation: ☐

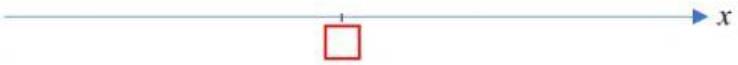
Real number line:



(c) $x \geq 1.5$

Interval notation: ∞

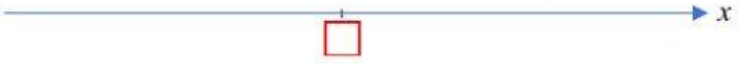
Real number line:



(d) $y < 3$

Interval notation: ∞

Real number line:



(e) $-5 \leq x < -2$

Interval notation: ☐

Real number line:



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2. Fill in the blanks with the correct inequality symbols. Drag and drop the correct symbols.

<	<		>	>
≤	≤	≤	≥	≥

(a) if $x > 3$, then $x - 3 ____ 0$

(b) if $x - 7 \leq 3$, then $x ____ 10$

(c) If $x \leq 6$, then $3x ____ 18$

(d) If $-x > 9$, then $x ____ -9$

(e) If $8 - x \leq 4$, then $x ____ 4$

(f) If $5x \geq 35$, then $x ____ 7$

(g) If $-\frac{1}{5}x < 1$, then $x ____ -5$

(h) If $x \geq 3$, then $-2x ____ -6$

(i) If $x > -4$, then $-3x ____ 12$

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LIVEWORKSHEETS