

Worksheet 1

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Problem 1 (Level of difficulty: **easy**)

Jessica is planning to rent the bicycle and only has \$20 in her pocket. The bike rent service charges a \$9 service fee and a \$5.35 per hour rental fee.

If Jessica is going to rent a bike for x hours, which inequality represents this scenario?

- A) $9x > 20$
- B) $9 + 5.35x \leq 20$
- C) $9x + 5.35 \leq 20$
- D) $5.35x \geq 20$

Problem 2 (Level of difficulty: **easy**)

A small group of workers should harvest at least 100 pounds of blackberries in the forest within one whole day. In the morning, they have already collected 32 pounds. In the afternoon, workers are planning to pick on average 11 pounds of berries per hour for y hours. Which inequality correctly models this situation?

- A) $32 + 11y > 100$
- B) $32 + 11y \leq 100$
- C) $11y \geq 100$
- D) $32 + 11y \geq 100$

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Problem 3 (Level of difficulty: **medium**)

A group of classmates is going to the movie to watch a new film. The group consists of seven girls and five boys. Each child got \$15 from parents. One cinema ticket costs \$ x and one popcorn is \$ y . If each child is going to buy one movie ticket and one popcorn, which mathematical inequality below represents this real-life situation?

- A) $12x + 12y > 180$
- B) $12x + 12y \leq 180$
- C) $7x + 5y \leq 180$
- D) $12xy > 180$