

Question ID c20160de

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Algebra	Linear inequalities in one or two variables	

ID: c20160de

Monarch butterflies can fly only with a body temperature of at least **55.0 degrees Fahrenheit ($^{\circ}\text{F}$)**. If a monarch butterfly's body temperature is **51.3°F** , what is the minimum increase needed in its body temperature, in **$^{\circ}\text{F}$** , so that it can fly?

- A. **1.3**
- B. **3.7**
- C. **5.0**
- D. **6.3**

Question ID 2e4cdcad

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Algebra	Linear inequalities in one or two variables	

ID: 2e4cdcad

Ty set a goal to walk at least ~~24~~ kilometers every day to prepare for a multiday hike. On a certain day, Ty plans to walk at an average speed of ~~4~~ kilometers per hour. What is the minimum number of hours Ty must walk on that day to fulfill the daily goal?

- A. ~~4~~
- B. ~~6~~
- C. ~~20~~
- D. ~~24~~

Question ID fc285932

Assessment	Test	Domain	Skill	Difficulty
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ID: fc285932

The total cost, in dollars, to rent a surfboard consists of a **\$25** service fee and a **\$10** per hour rental fee. A person rents a surfboard for t hours and intends to spend a maximum of **\$75** to rent the surfboard. Which inequality represents this situation?

- A. $10t \leq 75$
- B. $10 + 25t \leq 75$
- C. $25t \leq 75$
- D. $25 + 10t \leq 75$

Question ID 337be703

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Algebra	Linear inequalities in one or two variables	

ID: 337be703

A geologist needs to collect at least **67** samples of lava from a volcano. If the geologist has already collected **63** samples from the volcano, what is the minimum number of additional samples the geologist needs to collect?

- A. **130**
- B. **63**
- C. **4**
- D. **0**

Question ID 5cabd603

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Algebra	Linear inequalities in one or two variables	

ID: 5cabd603

During a portion of a flight, a small airplane's cruising speed varied between **150** miles per hour and **170** miles per hour. Which inequality best represents this situation, where *s* is the cruising speed, in miles per hour, during this portion of the flight?

- A. $s \leq 20$
- B. $s \leq 150$
- C. $s \leq 170$
- D. $150 \leq s \leq 170$

Question ID 0b52d235

Assessment	Test	Domain	Skill	Difficulty
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ID: 0b52d235

During spring migration, a dragonfly traveled a minimum of **1,510** miles and a maximum of **4,130** miles between stopover locations. Which inequality represents this situation, where *d* is a possible distance, in miles, this dragonfly traveled between stopover locations during spring migration?

- A. $d \leq 1,510$
- B. $1,510 \leq d \leq 4,130$
- C. $d \geq 4,130$
- D. $4,130 \leq d \leq 5,640$