

# BIGGEST LOSER

Read the following passage. Write down what you notice and what you wonder.

Three friends, Andrew, Bao, and Ciara, are on the track team and like to compete with each other. One afternoon, they have the following conversation:

**Andrew:** I have taken five seconds off of my 200-meter dash time, more than either of you!

**Bao:** But I've decreased my time by 15%! Neither of you can say that.

**Ciara:** I've already gotten 95% of the way to my goal time. Neither of you are more than half way!

# Situation 1

- ❖ Two movie theaters raised their ticket prices. Centre Theaters raised prices from \$12.00 a ticket to \$14.00 a ticket, and Midtown Theater raised their ticket prices from \$13.50 to \$16.00. Which theater raised their prices more?

## Situation 2

- ❖ A company sells two sizes of candy bars, regular and king size. The regular size is currently 9 ounces, and the king size is currently 12 ounces. Due to increased costs, they plan to reduce the size of each by 1.5 ounces. Which candy bar's size changed more?

## Situation 3

- ❖ Anthony and Christian both need to finish reading a 250 page book for their English class in the next three weeks. At the beginning of the week, Anthony had read 100 pages, and Christian had read 70 pages. By the end of the week, Christian had read 150 pages, and Anthony had read 130 pages. Who has made better progress?

# Situation 4

- ❖ Lyla and Lily, like many twins, were born prematurely. They needed to remain in the hospital until they reached an adequate weight—around 2500 grams. Lyla was 1700 grams when she was born, and Lily was 1850 grams. Doctors monitored their weight gain closely. A weight gain of 5% or more of their body mass would be considered a good sign that the baby was healthy. After their first week, Lyla weighed 1793 grams and Lily weighed 1941 grams. About which baby's health could doctors be more confident?

# Situation 5

- ❖ Jamie weights 160 pounds and wants to lose 30 pounds. Janis weights 145 pounds and wants to lose 20 pounds. Both of them lose 2 pounds in one week. Who is making better progress?

# 5-Minute Paper

- ❖ What is the best method for measuring weight loss? Explain your reasoning.
- ❖ Is this method the best method to use when measuring any kind of change? Explain your reasoning.