Cost of Materials

Did You Know? Engineers perform math calculations to create their desired product. They may work towards many goals, such as using the least amount of materials, spending the least amount of money, or using the least amount of space.

The Grade 3 team is building structures using the materials shown in the table. Each team is given 145 points. Kendra's team buys 30 gumdrops. She needs to know if they have enough points left to buy 30 toothpicks. Kendra says her team has enough points.

Building Project Materials

Matchais	
Material	Cost
Toothpick	2 points
Gumdrop	3 points
Cotton ball	4 points
Rubber band	5 points
Fabric strip	7 points
Tin foil	9 points

Kendra's work

$$30 \times 3 = 90$$

The team has used 90 points.

145 is about 150. 150 - 90 = 60 and $30 \times 2 = 60$

30 toothpicks cost 60 points.

The team has enough points to buy 30 toothpicks.

What is Kendra's argument? How does she support it?

2 Extension Critique Kendra's reasoning.