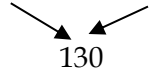


35, 40, 30, 25, \_\_\_\_, 35, 35, 35, 35, 35



- On the left side we have 130. On the right side we have 175.
- Since we know we want the left side to be equal to the right side, all we need to do is find the difference between our two sides and that will tell us what we need our missing data point to be.
- In this example we see that  $175 - 130$  is equal to 45 minutes. So if Victoria wants to have an average of practicing for 35 minutes this week, she will need to practice for 45 minutes the last day.
- Check by making sure that your left side does equal the mean you want. Show that the data adds up to 175 and when we divide by 5 we get 35.

Yes, this is an example! You should read the entire example!

Name \_\_\_\_\_

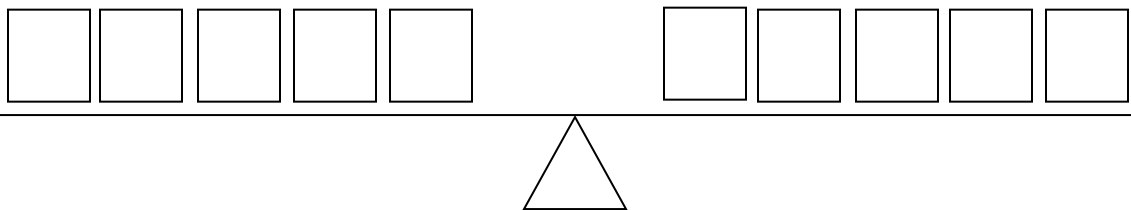
### Class Work: Finding data point for a desired Mean

**Directions:** Find the missing data point for the desired mean below. Use the see-saw for each question. Show all of your work and circle your answer.

1. Brandon had the following scores for his Quarter 1 tests:

Test Number	Score
#1	83
#2	95
#3	92
#4	87
#5	?

What does Brandon need to get on his 5<sup>th</sup> test to have a mean (average) score of 90?

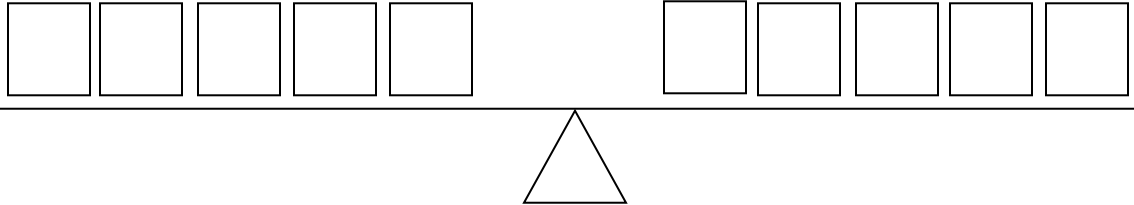


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2. Victoria practiced piano for the number of minutes listed below this week:

35, 40, 30, 25, ?
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How many more minutes does Victoria need to practice this week to have practiced an average of 35 minutes?



3. Abby has taken 9 math quizzes this year. Her quiz scores are shown below.

98 94 86 88 89 100 82 91 100
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Abby will take one more quiz this year. If the highest possible score is 100, is it possible for Abby to have a quiz average (mean) of 95?

4. Ahmal's goal is to exercise for a mean of 45 minutes per day for one week. For the first 6 days of the week, he exercised 35, 40, 37, 42, 45 and 50 minutes.

What is the number of minutes Ahmal must exercise on the 7<sup>th</sup> day to reach his goal exactly?

- A. 21 minutes
- B. 42 minutes
- C. 49 minutes
- D. 66 minutes

*Show your work below.*