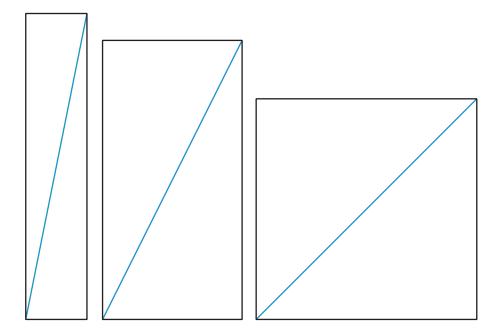
Unit 8 Lesson 13: When Is the Same Size Not the Same Size?

1 Three Figures (Warm up)

Student Task Statement

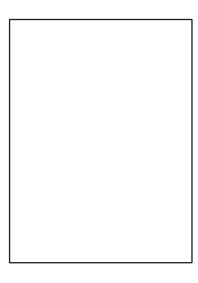
How are these shapes the same? How are they different?



2 A 4 : 3 Rectangle

Student Task Statement

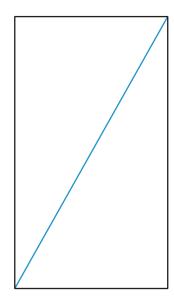
A typical aspect ratio for photos is 4:3. Here's a rectangle with a 4:3 aspect ratio.

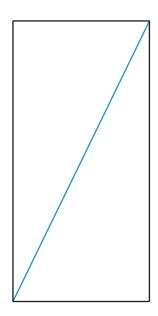


- 1. What does it mean that the aspect ratio is 4 : 3? Mark up the diagram to show what that means.
- 2. If the shorter side of the rectangle measures 15 inches:
 - a. What is the length of the longer side?
 - b. What is the length of the rectangle's diagonal?
- 3. If the diagonal of the 4: 3 rectangle measures 10 inches, how long are its sides?
- 4. If the diagonal of the 4:3 rectangle measures 6 inches, how long are its sides?

3 The Screen Is the Same Size . . . Or Is It?

Images for Launch





Student Task Statement

Before 2017, a smart phone manufacturer's phones had a diagonal length of 5.8 inches and an aspect ratio of 16:9. In 2017, they released a new phone that also had a 5.8-inch diagonal length, but an aspect ratio of 18.5:9. Some customers complained that the new phones had a smaller screen. Were they correct? If so, how much smaller was the new screen compared to the old screen?