

Booklet and Frames (6.4.D.13.5)

Illustrative Mathematics

13.5: Booklet and Frames

1. Elena is binding a small booklet with a spine that is $\frac{21}{4}$ inches long. She uses staples that are $\frac{7}{16}$ -inch long. If she puts the staples end-to-end through the booklet, without gaps or overlaps between them, how many staples would it take to bind the booklet?
1. Two rectangular picture frames have the same area of 45 square inches but have different side lengths. One frame has a length of $6\frac{3}{4}$ inches, and the other frame has a length of $7\frac{1}{2}$ inches.
 - Before calculating, predict which frame has the shorter width. Explain your reasoning.
 - Calculate the width that you predicted to be shorter.