Unit 2- Pre-Unit Problems

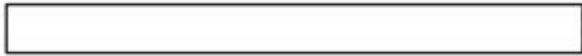**1.**

a. Plot 6/4 on the number line.

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+---------------+---------------+
0               1               2
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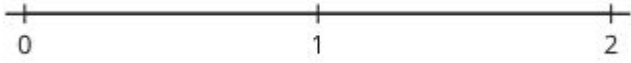
b. Explain why your point represents 6/4.

2.

Shade ¾ of the rectangle.

[rectangle]

Explain your reasoning.

3.

Explain or show why $\frac{4}{3} = 4 \times \frac{1}{3}$

4.

Each workbook is ⅜ inch thick.
How many inches thick is a stack of 5 workbooks?
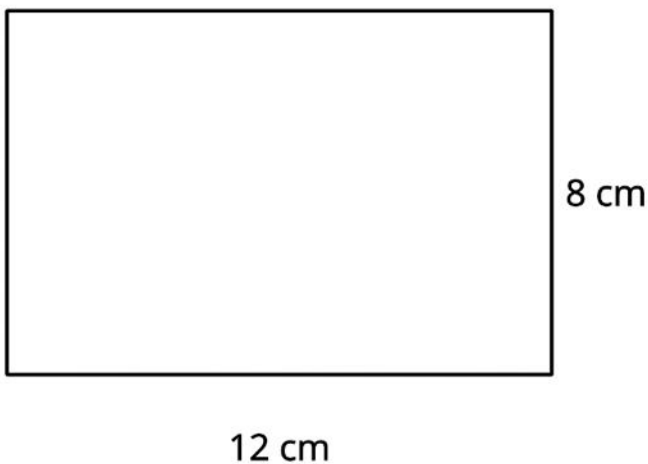Explain your reasoning.

5.

   a. There are 36 fish in 4 aquariums. There are the same number of fish in each aquarium. How many fish are in each aquarium? Show or explain your reasoning.

   b. There are 24 dogs at a shelter. There are 4 times as many dogs as cats at the shelter. How many cats are there at the shelter? Show or explain your reasoning.

6.

A bottle holds $\frac{7}{10}$ liter of water. How much water do 6 bottles hold? Explain or show your reasoning.

7.

8 cm

12 cm

What is the area of the rectangle?

Explain or show your reasoning.