

## Section C: Practice Problems

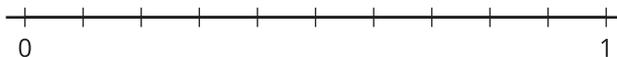
1. Andre is building a tower out of different foam blocks. These blocks come in three different thicknesses:  $\frac{1}{2}$ -foot,  $\frac{1}{4}$ -foot, and  $\frac{1}{8}$ -foot.

Andre stacks two  $\frac{1}{2}$ -foot blocks, two  $\frac{1}{4}$ -foot blocks, and two  $\frac{1}{8}$ -foot blocks to create a tower. What will the height of the tower be in feet? Explain or show how you know.

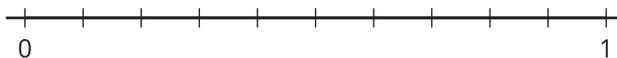
(From Unit 3, Lesson 15.)

2. Find the value of each of the following sums. Show your reasoning. Use number lines if you find them helpful.

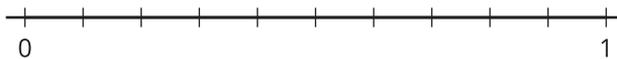
a.  $\frac{1}{10} + \frac{3}{100}$



b.  $\frac{24}{100} + \frac{4}{10}$



c.  $\frac{7}{10} + \frac{13}{100}$



(From Unit 3, Lesson 16.)

3. Is the value of each expression greater than, less than or equal to 1? Explain how you know.

a.  $\frac{3}{10} + \frac{7}{100}$

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b.  $\frac{13}{10} + \frac{7}{100}$

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c.  $\frac{30}{100} + \frac{7}{10}$

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(From Unit 3, Lesson 17.)



## 6. Exploration

A dime is worth  $\frac{1}{10}$  of a dollar and a penny is worth  $\frac{1}{100}$  of a dollar.

- a. If I have  $\frac{89}{100}$  of a dollar, how many different combinations of dimes and pennies could I have? Use equations to show your reasoning.

- b. A nickel is worth  $\frac{5}{100}$  of a dollar. How many different combinations of dimes, nickels and pennies could I have if I still have  $\frac{89}{100}$  of a dollar? Use equations to show your reasoning.