Problem 3.4 continued

B **1. a.** Which of the fractions below could be written with tenths or hundredths in the denominator? For each such fraction, write an equivalent decimal.

$\frac{1}{3}$ $\frac{1}{5}$ $\frac{2}{5}$ $\frac{2}{6}$ $\frac{3}{6}$ $\frac{1}{8}$ $\frac{63}{50}$ $\frac{112}{200}$

b. Which fractions cannot be written with tenths or hundredths in the denominator? Justify your answer.

2. Name two other fractions that are easy to write as equivalent decimals, and two that are not easy to write as decimals. Explain.

3. a. Which decimal is closest to $\frac{1}{3}$: 0.3, 0.33 or 0.333? Explain.

b. Are any of the decimals 0.3, 0.33, or 0.333 exactly $\frac{1}{3}$? Explain your reasoning.

C Find decimal equivalents for each group of fractions.

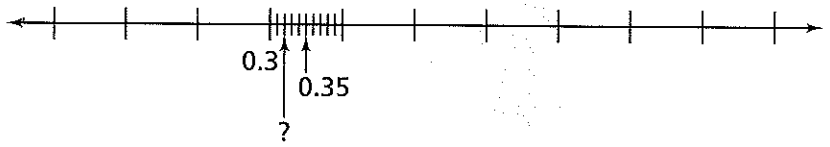
1. $-\frac{2}{5}$ $-\frac{3}{5}$ $-\frac{4}{5}$ $-\frac{6}{5}$ **2.** $\frac{2}{8}$ $\frac{3}{8}$ $\frac{4}{8}$ $\frac{5}{8}$ $\frac{6}{8}$ $\frac{7}{8}$ **3.** $\frac{1}{3}$ $\frac{2}{3}$ $\frac{3}{3}$ $\frac{4}{3}$

4. Describe the strategies you used to find decimal equivalents.

D Each number line below has two points labeled with decimal numbers and one with a question mark. In each case, what decimal number should go in place of the question mark?

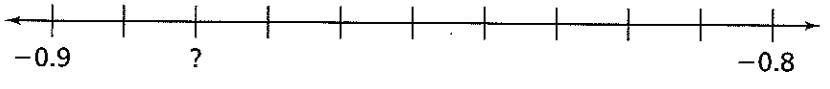
1.

2.

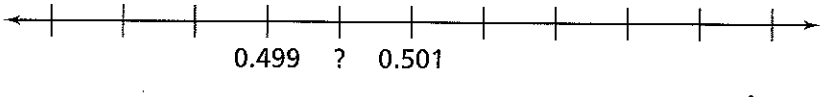


3.

4.



5.



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