Fractions and Decimals on the Number Line

How do you locate fractions and decimals on a number line?

Show $\frac{1}{8}$ on a number line.

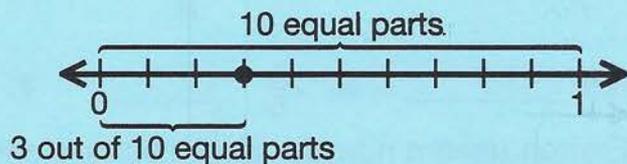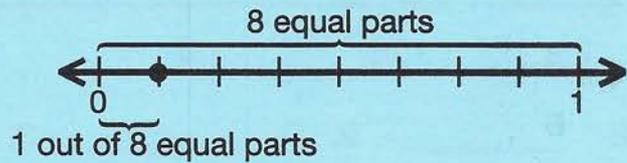Draw a number line and label 0 and 1. Divide the distance from 0 to 1 into 8 equal lengths.

8 equal parts

1 out of 8 equal parts

Label 0, $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \frac{4}{8}, \frac{5}{8}, \frac{6}{8}, \frac{7}{8}$, and 1.
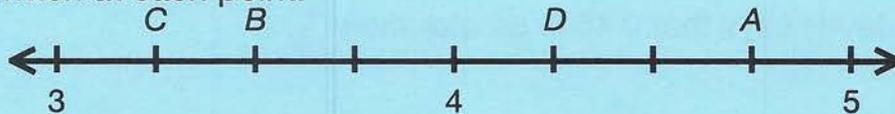
Draw a point at $\frac{1}{8}$.

Show 0.3 on a number line.

Use the same number line. Divide the distance from 0 to 1 into 10 equal lengths.

10 equal parts

3 out of 10 equal parts
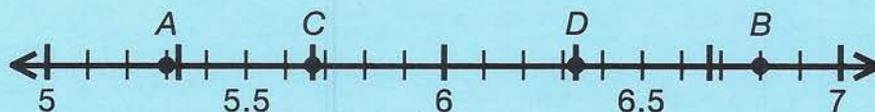
Label 0.1, 0.2, 0.3, 0.4, and so on.

Use the number line to name the fraction or decimal that should be written at each point.

| 1. A _____ | 2. B _____ | 3. C _____ | 4. D _____ |

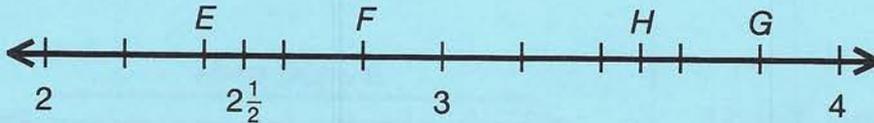Identify the correct point on the number line for each fraction or decimal.

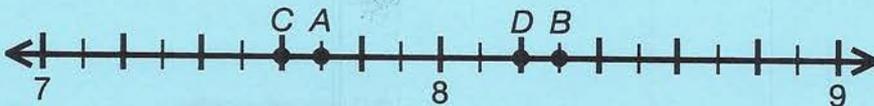| 5. $6\frac{1}{3}$ _____ | 6. 5.3 _____ | 7. $5\frac{2}{3}$ _____ | 8. 6.8 _____ |

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Use the number line to name the fraction or decimal that should be written at each point.

1. E _____ **2.** F _____ **3.** G _____ **4.** H _____

Identify the correct point on the number line for each fraction or decimal.

5. 8.3 _____ **6.** $7\frac{3}{5}$ _____ **7.** 7.7 _____ **8.** 8.2 _____

9. Eamon used a number line to compare two numbers, 0.48 and $\frac{3}{5}$. One number was less than $\frac{1}{2}$ and the other number was greater than $\frac{1}{2}$. Which number was less than $\frac{1}{2}$? _____

10. Which of the following choices is not correct?

   A $0.43 < \frac{4}{5}$ **B** $\frac{2}{3} > 0.07$ **C** $\frac{1}{2} > 0.09$ **D** $\frac{1}{3} > 0.35$

11. Writing to Explain Jayne says that 0.45 is greater than $\frac{4}{10}$. Is she correct?

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