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## Chapter 7 Section C Diagnostic Checkpoint

### MULTIPLE CHOICE

1. On a number line, which decimal would you put between  $\frac{2}{5}$  and  $\frac{35}{50}$ ? (7-14)

- A. 0.2      B. 0.32      C. 0.625      D. 0.71

2. Which shows 6.08 as a mixed number in simplest form? (7-13)

- A.  $\frac{2}{25}$       B.  $6\frac{8}{100}$       C.  $6\frac{4}{5}$       D.  $6\frac{2}{25}$



### FREE RESPONSE

Write a decimal and a fraction in simplest form for the shaded portion of each model. (7-13)



Write each decimal as a fraction or mixed number in simplest form. (7-13)

6. 0.5      7. 7.125      8. 1.24      9. 0.46

Write each fraction or mixed number as a decimal. (7-13)

10.  $\frac{8}{25}$       11.  $4\frac{9}{10}$       12.  $\frac{3}{8}$       13.  $5\frac{1}{20}$

Show each set of numbers on the same number line. Then order the numbers from least to greatest. (7-14)

14. 0.875,  $\frac{11}{20}$ ,  $\frac{2}{5}$       15.  $1\frac{7}{10}$ ,  $1\frac{1}{4}$ ,  $\frac{2}{5}$ , 1.65

16. Nick, Amy, and Maria play either softball, tennis, or badminton. Amy's sport does not require a ball. Nick's sport does not require a net. Use the chart and logical reasoning to find who plays each sport. (7-15, 7-16)

	softball	tennis	badminton
Nick			
Amy			Yes
Maria			

### Writing in Math

17. Explain how a mixed number and a decimal can name the same point on a number line. (7-14)
18. Explain how to write 4.7 as a mixed number. (7-13)