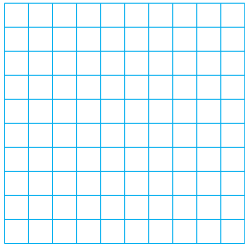
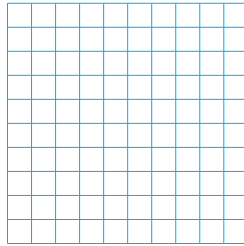


**CONVERTING BETWEEN PERCENTS AND DECIMALS** Write the percent as a decimal or the decimal as a percent. Use a model to represent the number. (See Example 1.)

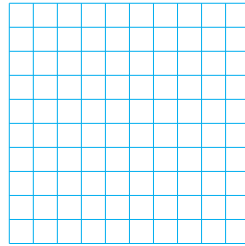
8. 26%



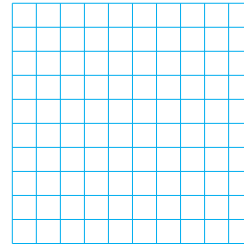
9. 0.63



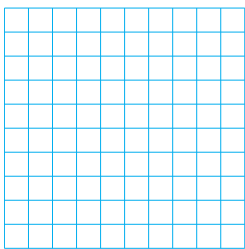
10. 9%



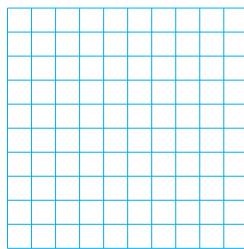
11. 0.6



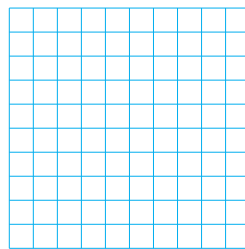
12. 44.7%



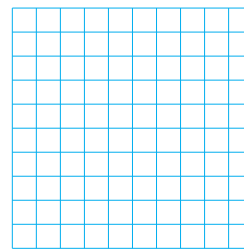
13. 55%



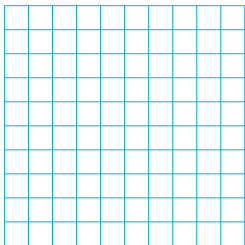
14.  $39.\overline{2}\%$



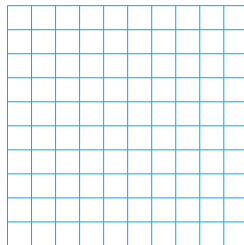
15. 3.554



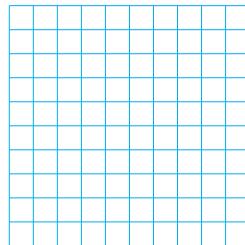
16. 123%



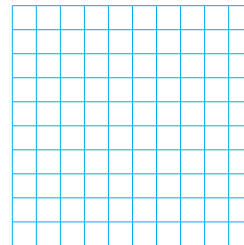
17. 0.041



18. 0.122



19.  $49.\overline{92}\%$



**4**  
MTR

20. **YOU BE THE TEACHER** Your friend writes  $4.\overline{8}\%$  as a decimal. Is your friend correct? Explain your reasoning.

$$4.\overline{8}\% = 4.888\dots\% = 488.\overline{8}$$

**WRITING FRACTIONS AS DECIMALS AND PERCENTS** Write the fraction as a decimal and a percent. (See Example 2.)

▶ 21.  $\frac{29}{100}$

22.  $\frac{3}{4}$

23.  $\frac{7}{8}$

24.  $\frac{2}{3}$

25.  $\frac{7}{9}$

26.  $\frac{12}{5}$

27.  $\frac{9}{2}$

28.  $\frac{1}{1000}$

29.  $\frac{17}{6}$

30.  $\frac{3}{11}$

31.  $\frac{1}{750}$

32.  $\frac{22}{9}$



**MAINTAIN ACCURACY** Order the numbers from least to greatest.

33. 66.1%, 0.66,  $\frac{2}{3}$ , 0.667

34.  $\frac{2}{9}$ , 21%,  $0.2\bar{1}$ ,  $\frac{11}{50}$

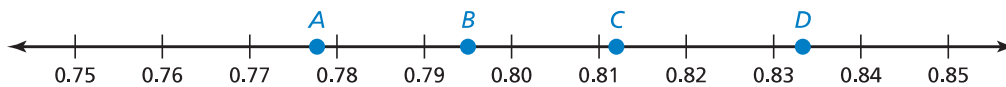
**MATCHING** Tell which letter shows the graph of the number.

35.  $\frac{7}{9}$

36. 0.812

37.  $\frac{5}{6}$

38. 79.5%



39. **PROBLEM SOLVING** The table shows the portion of students in each grade that participate in School Spirit Week. Order the grades by portion of participation from least to greatest.

Grade	Participation
6	0.64
7	$\frac{3}{5}$
8	65%



40. **MODELING REAL LIFE** The table shows the portion of gold medals that were won by the United States in five summer Olympic Games. In what year did the United States win the least portion of gold medals? the greatest portion? Justify your answers.

Year	2000	2004	2008	2012	2016
Portion of Gold Medals Won	$12.\bar{3}\%$	$\frac{36}{301}$	$0.\bar{12}$	$\frac{23}{150}$	$\frac{46}{307}$