6.1 Decimals and Percents

Name: _____

MATCHING Match the decimal with its equivalent percent.

1. 0.42   **2.** 4.02   **3.** 0.042   **4.** 0.0402

   A. 4.02%   **B.** 42%   **C.** 4.2%   **D.** 402%

6. WHICH ONE DOESN'T BELONG? Which one does *not* belong with the other three? Explain your reasoning.

| 70% | 0.7 | $\frac{7}{10}$ | 0.07 |

Explain why not in a sentence: _____

Write the percent as a decimal.

7. 78%   **8.** 55%   **9.** 18.5%

10. 57.4%   **11.** 33%   **12.** 9%

Write the decimal as a percent.

19. 0.74   **20.** 0.52   **21.** 0.89

22. 0.768   **23.** 0.99   **24.** 0.49

31. ERROR ANALYSIS Describe and correct the error in writing 0.86 as a percent.

$$\times \quad 0.86 = 00.86 = 0.0086\%$$

What is the error? _____   0.86 = _____%

38. SCHOOL The percents of students who travel to school by car, bus, and bicycle are shown for a school of 825 students.

Car: 20%   School bus: 48%   Bicycle: 8%

a) Write the percents as decimals: _____ _____ _____

b) Write the percents as simplified fractions: _____ _____ _____

c) What percent of students use another method to travel to school? _____

6.2 Comparing Fractions, Decimals, and Percents

Fair Game Review what you learned in previous grades & lessons

Tell whether the ratios form a proportion.

33. $\frac{6}{10}, \frac{9}{15}$

34. $\frac{7}{16}, \frac{28}{80}$

36. What is the solution of $2n - 4 > -12$?

Practice and Problem Solving

1. Complete the table (no calculator!):

Fraction	Decimal	Percent
$\frac{18}{25}$	0.72	
$\frac{17}{20}$		85%
$\frac{13}{50}$		
	0.62	
		45%

2. Which one does not belong?

Explain.

40%	$\frac{2}{5}$
0.4	0.04

Why not? _____

_____

_____

Tell which number is greater. **Show math evidence!**

4. 0.9, 95%

5. 20%, 0.02

6. $\frac{37}{50}$, 37%

7. 50%, $\frac{13}{25}$

Convert to same form! Then order from least to greatest:

16. 38%, $\frac{8}{25}$, 0.41

17. 68%, 0.63, $\frac{13}{20}$

22. **TEST** You answered 21 out of 25 questions correctly on a test. Did you reach your goal of getting at least 80%?

Why? Show math evidence! _____