Unit 6 Decimal, Algebra, Patterns Study Guide

Write an equivalent fraction for the following decimals.

1) 0.75 _____ 2) 0.12 ____ 3) 0.06 ____ 4) 3.97 ____

Round the following decimals to the nearest whole number

5) 4.55 _____ 6) 1.09 ____ 7) 87.099 ____

8) 2.91 _____

Write an equivalent decimal for each.

9) 0.80 _____ 10) 0.40 ____ 11) $\frac{1}{10}$ _____ 12) $\frac{21}{100}$ _____

Order the following from least to greatest.

17.3, 17.003, 17. 31, 17.02 13)

Order the following from greatest to least.

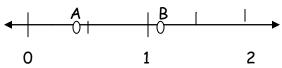
14.68, 14.86, 14.88, 14.809, 14.801 14)

Write the following decimals in expanded form.

15) 0.33 16) 0.84 _____

1.27 _____ 17)

18) 0.52 _____



19) Circle the approximate location of point A on the number line... 0.1

0.5

20) Circle the approximate location of point B on the number line... 0.5

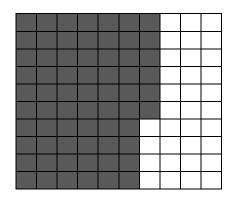
0.9 1.1 Complete the following with an equivalent fraction.

21)
$$\frac{10}{10} = \frac{40}{100}$$

$$22) \ \frac{1}{10} = \frac{1}{100}$$

$$23) \ \ \frac{4}{100} = \frac{40}{100}$$

24) Write a fraction and decimal for the following shaded region that is represented. _____



Solve then write your answer as a fraction and as a decimal.

25)
$$1 + \frac{7}{10} + \frac{10}{100} =$$
 26) $\frac{4}{10} + \frac{9}{100} =$

26)
$$\frac{4}{10} + \frac{9}{100} =$$

Write the answers to #25 and #26 in word form.

Compare the following using <, >, or =. Verify your answer by drawing a model.

29)
$$\frac{1}{100}$$
 — $\frac{1}{10}$

29)
$$\frac{1}{100}$$
 ____ 30) $\frac{6}{10}$ ____ $\frac{60}{1000}$ 31) $\frac{71}{100}$ ____ $\frac{70}{1000}$

31)
$$\frac{71}{100}$$
 — $\frac{70}{100}$

32) The numbers below follow a pattern. Write the next two numbers.		
109, 98, 87, 76,, What is the rule?		
33) Choose a rule to describe the following pattern 12, 24, 48, 96		
a. add 12 b. subtract 12 c. multiply by 1/2 d. multiply by 2		
54 9 114	put 4	quation.
3	/	
35) The following table shows the relationship between the hours Jill baby sat and the amount of money she earned.		
a) How many hours did she work when she earned \$220?		
b) How much money will she earn if she worked 30 hours?		
c) How many hours did she work when she earned \$560?		
d) What is the rule	# of hours worked	Money earned
Write the rule as an equation.	10	\$100
	12	\$120
		\$220
	30	
		\$560
36) Complete the sequence of numbers that could be part a patter stated below.	rn that follows th	ne rule

Rule: Multiply 2, then add 1

37) Which of the following dollar amount is not equal to \$17 when rounded to the nearest dollar?

- \$ 16.55 b. \$ 17.49 c. \$ 16.49 d. \$ 17.51

38) Solve:

a.
$$5\frac{1}{8} - 2\frac{3}{8} =$$

b.
$$8 \times \frac{5}{7} =$$

42) Estimate then add:
$$37 + 392 + 12,989 =$$