Algebra   Name _____

Chapter 0 Practice Test   Date _____

Please make a reasonable estimation. You don't need to exactly solve.

1) At a recent trip to the movies, parking cost $2, movie tickets cost $21.50, popcorn costs $6.75, and drinks cost $4.90. Approximately what was the total expenditure?

1) _____

2) Suppose I need 7 bundles of hardwood flooring, and each bundle costs $39.90. Approximately how much will I be spending?

2) _____

Please evaluate.

3) How many times can a jug that holds $\frac{1}{4}$ of a gallon of water fill a 4-gallon jug?

3) _____

4) How many miles will I travel if my speed is 45 mph, and I drive for 5 hours?

4) _____

5) Suppose Abbey's car can hold 15 gallons of gas when full. She'll then be able to drive for 300 miles. Please pose a question based on this information only, and then answer it.

Please complete the table below, by placing a check mark or X to indicate all sets of numbers that apply to the value of each expression.

		I irrational	Q rational	Z integer	W whole	N natural
6)	49					
7)	−49					
8)	0.49					
9)	$\sqrt{49}$					
10)	$\sqrt{50}$					

Please complete the following.

11)   11 + 14   11) _____

12)   11 − 14   12) _____

13)   -11 + 14   13) _____

14)   -11 − 14   14) _____

15)   13 • -5   15) _____

16)   -13 ÷ -1   16) _____

17)   The Dead Sea is the lowest point on earth, measured at 400 meters *below* sea level. Mt. McKinley, the highest peak in the United States, stands at 6200 meters *above* sea level. What is the difference in elevation between the Dead Sea and Mt. McKinley?

17) _____

Please write <, >, or = to make the statement true. Kindly show work to receive credit.

18) $\dfrac{1}{4}$ $\dfrac{3}{7}$

18) _____

19) $\dfrac{2}{5}$ 0.42

19) _____

Please find each sum or difference.

20) $\dfrac{1}{4} + \dfrac{3}{7}$

20) _____

21) $1\dfrac{1}{2} - \dfrac{2}{7}$

21) _____

22) $-21.5 - 6.7$

22) _____

23) $-21.5 + 6.7$

23) _____

Please multiply or divide. Remember to simplify all answers.

24) $\dfrac{10}{9} \cdot \dfrac{18}{25}$

24) _____

25) $\left(-2\dfrac{1}{3}\right)\left(1\dfrac{2}{7}\right)$

25) _____

26) $6 \div \dfrac{3}{4}$

26) _____

Please evaluate.

27) What is 30% of 110?

27) _____

28) 14 is what percent of 40?

28) _____

29) Which *perimeter* is greater: a triangle with sides 3, 4, 5 OR a square having side = 4? What is the difference in their perimeters?

29) _____

30) What is the circumference of a circle if the radius = 10 in.? (Please leave your answer in terms of π.)

30) _____