

You must show all work for full credit.

02/21/19, Rational Numbers Re-test

Student: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. Alexandra wants to make trail mix. She has  $1\frac{1}{3}$  of a cup of shredded coconut. Each batch of trail mix requires  $\frac{1}{4}$  of a cup of shredded coconut.

If she has enough of the other ingredients, how much trail mix can Alexandra make?

- A.  $\frac{5}{12}$  of a batch
- B.  $\frac{4}{3}$  of a batch
- C.  $5\frac{1}{3}$  batches
- D.  $5\frac{1}{4}$  batches
2. It takes  $1\frac{1}{2}$  bags of sand to cover  $\frac{1}{10}$  of a play area. How many bags of sand will be needed to cover the entire play area?

- A. 4
- B. 6
- C. 10
- D. 15

3. The agriculture club is planting vegetable gardens on a piece of land that measures  $\frac{1}{4}$  of an acre. Each garden will measure  $\frac{1}{16}$  of an acre. What is the greatest number of gardens that can be planted?

- A. 16
- B. 20
- C. 24
- D. 28

4. A builder used 7040 nails. One box contains 20 nails. How many boxes of nails did the builder use?

- A. 140
- B. 352
- C. 500
- D. 520

5. Mr. Smith has owned his car for 9 years. The car has ~~127,008~~ 127,008 miles recorded on the odometer. What is the average number of miles Mr. Smith's car has been driven each year?

- A. 13,334
- B. 14,083
- C. 14,112
- D. 14,167

6. Jackie's family drove across the country. They drove 1900 miles. Their car averaged 20 miles a gallon for the trip. How many gallons of gasoline did the family use?

- A. 95 gallons
- B. 100 gallons
- C. 130 gallons
- D. 1,300 gallons

7. Marcus bought 2 cases of canned green beans.

- Each case has 24 cans.
- Each can of green beans costs \$0.25 including tax.

How much did Marcus spend on green beans?

- A. \$6
- B. \$12
- C. \$18
- D. \$48

8. What is the value of  $15.12 \div 2.2$ ?

- A. 6.87
- B. 68.7
- C. 687
- D. 0.687

9. What is  $9.226 - 6.05$ ?

- A. 9.621
- B. 1.706
- C. 3.176
- D. 9.671

10. Four boxes of school supplies were delivered to a school. One box weighed  $1.5$  pounds. The remaining 3 boxes each weighed  $0.23$  pound. What was the total weight of all four boxes?
- A.  $1.73$  pounds  
B.  $2.19$  pounds  
C.  $1.15$  pounds  
D.  $2.79$  pounds
11. What is the sum of  $4.9$ ,  $5.23$ , and  $1.18$
- A.  $11.248$   
B.  $1.690$   
C.  $11.59$   
D.  $2.79$
12. The total admission cost for  $30$  students to go to the zoo was  $\$375$ . The admission cost was the same for each student. What was the admission cost for each student?
- A.  $\$11.00$   
B.  $\$12.50$   
C.  $\$15.00$   
D.  $\$30.00$