

Chapter 1 RETAKE Practice

Name: _____ Hour: _____

Common Core Standard: Know that there are numbers that are not rational, and approximate them by rational numbers.

Read the questions carefully.

Make sure to answer all parts of the problem.

Show necessary work. Label Answers.

Put your answers in the answer column.

1) Write $\frac{3}{5}$ as a terminating decimal.

2) Which of the following decimals is equivalent to the improper fraction $\frac{11}{24}$?

- A. $0.45\overline{83}$ B. 0.4583 C. $0.45\overline{8\bar{3}}$ D. 0.458

3) Three friends want to drive to the park. Park A is 2.1 miles from Victor's house. Park B is $\frac{13}{7}$ miles from Victor's house. Which park is closer to Victor's house? **Show Work!**

4) a) Write the fractions $\frac{28}{80}$ and $\frac{325}{625}$ as decimals.
b) Then compare the values using $>$, $<$ or $=$. **Show Work!**

5) Find the square root. $\sqrt{64}$

6) Which of the following number(s) are IRRATIONAL?

- A. -8 B. $-\frac{22}{6}$ C. 2.5487319 D. $\sqrt{91}$ E. 0 F. 21

7) The height of a painting is $\sqrt{56}$ feet. Between which two consecutive whole numbers is $\sqrt{56}$? **Show Work!**

- A. 5 and 6 B. 8 and 9 C. 6 and 7 D. 7 and 8

8) The area of a square poster is 31 in². Find the length of one side of the poster to the nearest tenth of an inch. **Show Work!**

1. _____

2. _____

3. _____

4. a) _____

b) $\frac{28}{80}$ _____ $\frac{325}{625}$

5. _____

6. _____

7. _____

8. _____

9) The length of a car is $\sqrt{242}$ ft. Will this car fit in a garage that measures 15 feet long?
If NOT, what is the minimum length of a garage long enough for this size – to the nearest WHOLE number? **Show Work!**

9. _____

10) Write the numbers in order from least to greatest. **Show Work!**

9.5, $\sqrt{68}$, $\sqrt{93}$, 8.7

10. _____

11) Four fruit trees are being moved into an orchard.
The trees are going to be planted in order from tallest to shortest.

Write the heights of the trees in order from greatest to least. **Show Work!**

11. _____

4.73 ft $\frac{34}{8}$ ft $\sqrt{28}$ ft 3.64 ft

12) Write then numbers in order from least to greatest. **Show Work!**

$\sqrt{23}$, -7.2, $-\sqrt{13}$, $4\frac{3}{8}$, $-\frac{19}{6}$

12. _____

13) After an accident, police can use the formula $v = 2\sqrt{5L}$ to estimate the speed, v, in miles per hour, that a car was traveling by measuring the length of the skid marks, L, in feet.

13. a) _____

a) Estimate the speed of a car that left skid marks 201 feet long.
Round to the nearest tenth as needed. **Show Work!**

b) _____

b) If the posted speed limit is 60 mi/h, was the car speeding?