

Practice Problems for Numbers
from www.topmath.info

1 What number equals 417 one-thousandths?

2 What number equals 9,249,118 one-millionths?

3 Let x be a negative integer. Let $q = (x - 0.96)^2$. Let $r = (x^2 - 0.96)$. Let $s = (x^3 - 0.96)$.
Write r , s , and t in order from least to greatest.

4 What number is 3.27 to the right of 5 on the number line?

5 What number is -10.75 to the left of -8.4 on the number line?

Practice Problems for Numbers
from www.topmath.info

6 What is $10.7 - 8.1$?

7 What is $48.4 \div 5.5$?

8 Write the number 70,407 in expanded form.

9 What number equals the Roman numeral M ?

10 What is the base 10 equivalent of the base four number 11?

Practice Problems for Numbers
from www.topmath.info

11 What is the base 10 equivalent of the base four number 1302?

12 (T/F): 16 is an odd number.

13 (T/F): The square root of 36 is a rational number.

14 (T/F): The number $89.153153153153153\dots$ is irrational.

15 What number equals 99 tenths?

Practice Problems for Numbers
from www.topmath.info

1 ANSWER: 0.417. EXPLANATION: To solve this, simply multiply 417 by 0.001, which is equivalent to moving the decimal point three places to the left..

2 ANSWER: 9.249118

3 ANSWER: s, r, q. EXPLANATION: Clearly, q and r will both be positive, but s will be negative, so s will be least. Subtracting 0.96 from the negative integer x before squaring it means the resulting square is larger than it would otherwise have been, so $(x - 0.96)^2$ must be greater than x^2 , and q must be greater than r.

4 ANSWER: 8.27

5 ANSWER: 2.35

Practice Problems for Numbers
from www.topmath.info

6 ANSWER: 2.6

7 ANSWER: 8.8

8 ANSWER: $70,000 + 400 + 7$. EXPLANATION: To convert numbers to expanded notation, write the values of the numbers from left to right, with plus signs in between. Skip the zeroes.

9 ANSWER: 1000

10 ANSWER: 5

Practice Problems for Numbers
from www.topmath.info

11 ANSWER: 114

12 ANSWER: False. EXPLANATION: A number is even if and only if it is an integer that ends in 0, 2, 4, 6, or 8. Integers that end in 1, 3, 5, 7, or 9 are odd. Since 16 ends in 6, it is odd.

13 ANSWER: True. EXPLANATION: The square root of 36 is 6, which is an integer, and therefore rational.

14 ANSWER: False. EXPLANATION: A rational number has one or more digits to the right of the decimal point that repeat forever. In this case, the number 153 repeats forever, so the number is rational.

15 ANSWER: 9.9. EXPLANATION: To solve this, simply multiply 99 by 0.10.