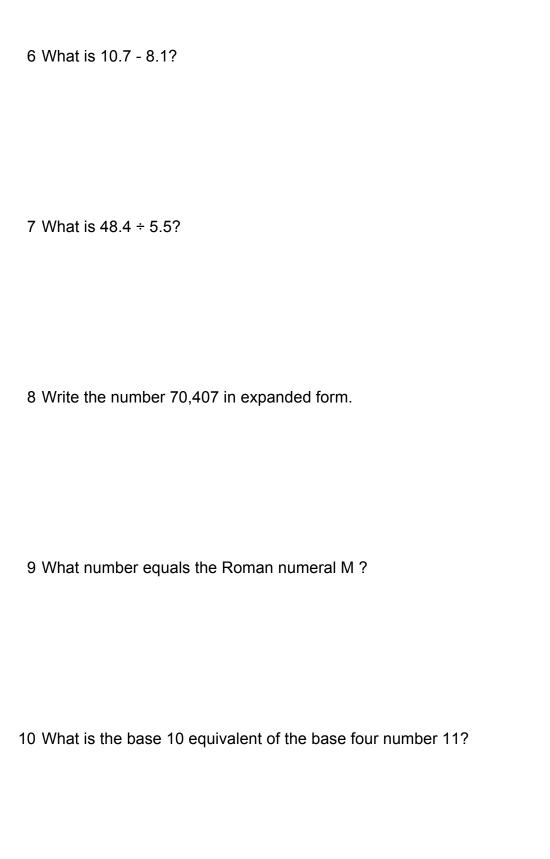
1	What number equals 417 one-thousandths?
2	What number equals 9,249,118 one-millionths?
3	Let x be a negative integer. Let $q = (x - 0.96)^2$ . Let $r = (x^2 - 0.96)$ . Let $s = (x^3 - 0.96)$ . Write r, s, and t in order from least to greatest.
4	What number is 3.27 to the right of 5 on the number line?
5	What number is -10.75 to the left of -8.4 on the number line?

Please e-mail comments and suggestions to: edu@ezlink.com



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 89.153153153153 is irrational.
15	What number equals 99 tenths?

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

6 ANSWER: 2.6	
7 ANSWER: 8.8	
8 ANSWER: 70,000 + 400 + 7. EXPLANATION: To convert numbers to expanded notal write the values of the numbers from left to write, with plus signs in between. Skip the zeroes.	tion
9 ANSWER: 1000	
10 ANSWER: 5	

Please e-mail comments and suggestions to: edu@ezlink.com

11 /	ANSWER: 114
$\epsilon$	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.
	ANSWER: True. EXPLANATION: The square root of 36 is 6, which is an integer, and herefore rational.
C	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.