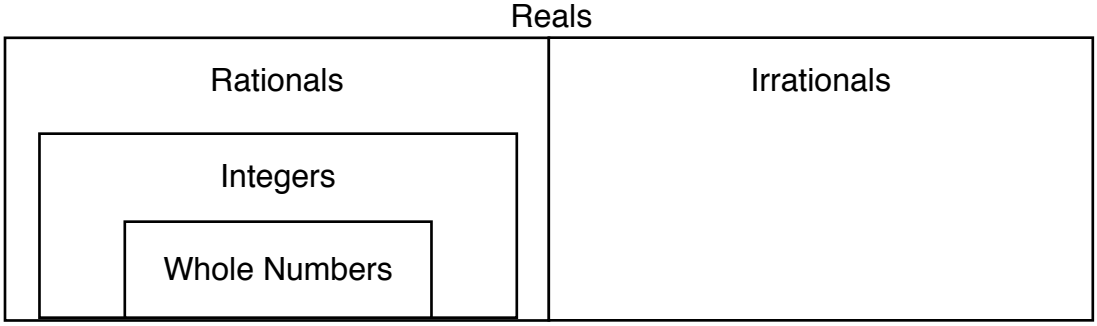
Mr. Fahrenbacher
Algebra 12-22
Chapter 2 Review

Types of numbers



1) Give an example of a whole number. _____

2) Give an example of an integer. _____

3) Give an example of an integer that is NOT a whole number. _____

4) Give an example of an integer that is a whole number. _____

5) Give an example of a rational number. _____

6) Give an example of a rational number that is NOT an integer. _____

7) Give an example of a ration number that is an integer. _____

8) Give an example of an irrational number. _____

9) Is $-\frac{9}{2}$ an integer? _____

10) Is $\sqrt{36}$ a rational number? _____

11) $|5|$ is what type of number? _____

12) $0.\overline{23}$ is what type of number? _____

13) $\sqrt{50}$ us what type of number? _____

Answers:

1: 0, 1, 2, 3, 4....
2: -4, -3, -2, 1, 0, 1, 2, ...
3: -1, -2, -3, -4, ...
4) 0, 1, 2, 3, 4, ...
5) Any fractional, decimal, or answer to #2
6) Any fraction that does not simplify to an integer
7) -4, -3, -2, 1, 0, 1, 2, ...
8) A square root of any non-perfect square
9) No - doesn't reduce to integer
10) Yes! - more specifically, it's whole
11) whole number
12) rational number - repeats
13) irrational - not perfect square

What two integers are the following square roots between?

14) $\sqrt{8}$ 15) $\sqrt{42}$ 16) $\sqrt{99}$

Answers:

14) between 2 and 3 15) between 6 and 7 16) between 9 and 10

ClassZone Problems: p. 121

#3-12
#13, 14, 17
#20, 21, 24, 25
#26 - 28
#29, 31
#32-34
#36-41
#43-45
#58-59

Extra Distribution Practice:

$5(x-3)+3(2x+4)$ $4-(2x+3)+5x$ $x(2x+1)-6x$

Answers:

11x - 3 3x + 1 $2x^2$ - 5x