

LESSON
1-2
and
1-3

Sets of Real Numbers

Practice and Problem Solving: A/B

List all number sets that apply to each number.

1. $-\frac{4}{5}$

2. $\sqrt{15}$

3. 0.125185623...

4. -25

5. $0.\bar{3}$

6. $\frac{4}{5} \cdot \frac{10}{4}$

Compare. Write $<$, $>$, or $=$.

7. $\sqrt{5} + 3 \bigcirc \sqrt{5} + 4$

8. $\sqrt{6} + 13 \bigcirc \sqrt{10} + 13$

9. $\sqrt{7} + 4 \bigcirc 5 + \sqrt{6}$

10. $8 + \sqrt{2} \bigcirc \sqrt{8} + 2$

11. $3 + \sqrt{3} \bigcirc \sqrt{13} - 7$

12. $11 - \sqrt{3} \bigcirc 5 - \sqrt{3}$

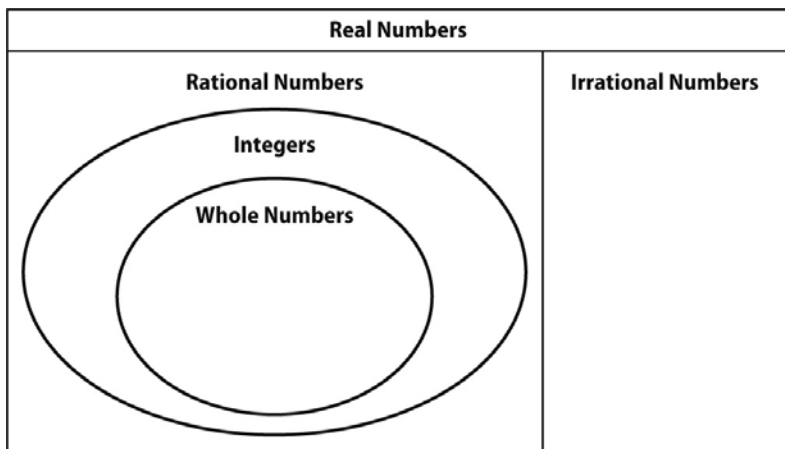
Place each number in the correct location on the Venn diagram.

13. $-\frac{5}{9}$

14. $-\sqrt{100}$

15. π

16. $\sqrt{25}$



17. Order $4.\bar{6}$, $\sqrt{13} + 1$, and $2\pi - 1.68$ from least to greatest. Use $\pi \approx 3.14$.

From least to greatest, the numbers are:

Use the table to answer the questions.

18. List the butterflies in order from greatest to least wingspan.

Butterfly	Wingspan (in.)
Great white	3.75
Large orange sulphur	$3\frac{3}{8}$
Apricot sulphur	2.625
White-angled sulphur	3.5

19. Four people are using different methods to measure the width of shelves to be installed in a closet using 3.5-centimeter brackets. Their results are shown in the table.

Shelf Width (m)			
Allie	Byron	Justin	Rosa
$\sqrt{12} - 2.2$	$\frac{\sqrt{23}}{2} - 1$	1.18	$1 + \frac{\pi}{9}$

Order their measurements from greatest to least.

20. Define the following terms and give 2 examples of each.

a. Rational Numbers

b. Irrational Numbers

c. Integers

d. Whole Numbers
