

Do you like to work with large numbers? Very often we round large numbers to work with them.

Whole numbers can also be represented in various types of graphs.



VERBALIZING WHOLE NUMBERS



Whole numbers can be expressed as either numerals or words.

WHOLE NUMBERS FROM NUMERALS TO WORDS

Four thousand, two hundred twelve are the number words for 4,212.

Notice where commas and hyphens are used. Commas are used when a numeral contains four or more digits; a comma is written in numerals and written in words. Hyphens are used between the words for the numerals from twenty-one through ninety-nine. Notice also that *and* is not used when reading just a whole number.

Models: 27 is *twenty-seven*.
281 is *two hundred eighty-one*.

 Write each number in words.

1.1 36 _____

1.2 14 _____

1.3 72 _____

1.4 102 _____

1.5 111 _____

1.6 236 _____

1.7 1,400 _____

1.8 2,610 _____

1.9 3,726 _____

1.10 14,625 _____

1.11 25,118 _____

1.12 425,665 _____

1.13 614,862 _____

WHOLE NUMBERS FROM WORDS TO NUMERALS

A whole number written as a word can be rewritten in numerals.

Models: *Thirty-seven* is 37.
One hundred eight is 108.

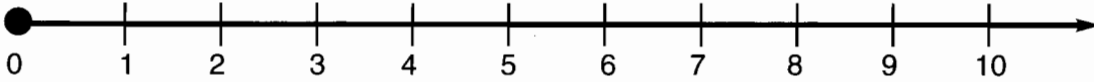


Complete these items.

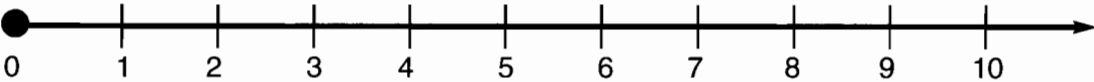
1.61 Use the denominators to prove that $2 \frac{3}{4} > 2 \frac{3}{5}$.

1.62 Use the denominators to prove that $3 \frac{2}{11} > 3 \frac{2}{13}$.

1.63 Use the number line to show that $3 \frac{3}{4} > 3 \frac{2}{3}$.



1.64 Use the number line to show that $5 \frac{1}{4} > 5 \frac{1}{8}$.



1.65 List the following fractions in order of value from smallest to largest:

$\frac{1}{8}$, $\frac{1}{12}$, $\frac{1}{4}$, $\frac{1}{2}$, $1 \frac{1}{8}$, $1 \frac{1}{16}$, $2 \frac{1}{2}$, $3 \frac{1}{4}$, $1 \frac{1}{2}$, and $4 \frac{1}{3}$.

1.66 List the following fractions in order of value from smallest to largest:

$5 \frac{2}{3}$, $\frac{5}{8}$, $16 \frac{1}{8}$, $1 \frac{5}{8}$, $\frac{2}{3}$, $8 \frac{1}{2}$, $2 \frac{1}{2}$, $3 \frac{1}{2}$, $2 \frac{1}{4}$, and $4 \frac{2}{5}$.

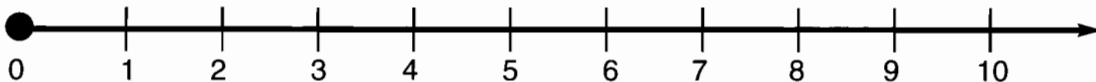
1.67 Arrange in order from largest to smallest:

$\frac{4}{3}$, $9 \frac{1}{2}$, 3 , 0 , $\frac{7}{2}$, $15 \frac{1}{8}$, $\frac{32}{3}$, $\frac{1}{4}$, $1 \frac{1}{2}$, and $3 \frac{3}{4}$.

1.68 Arrange in order from largest to smallest:

$5 \frac{1}{4}$, $6 \frac{2}{3}$, $1 \frac{1}{4}$, $\frac{7}{2}$, 8 , $\frac{1}{3}$, 0 , $\frac{11}{4}$, $2 \frac{1}{16}$, and $13 \frac{7}{8}$.

1.69 Plot the following numbers on the line: $1 \frac{1}{2}$, $3 \frac{1}{4}$, $\frac{9}{2}$, 0 , $2 \frac{2}{3}$, and 6 .



1.70 Plot the following numbers on the number line: 2 , $\frac{4}{3}$, $8 \frac{1}{2}$, $1 \frac{1}{5}$, $\frac{3}{4}$, and $4 \frac{2}{3}$.



Review the material in this section in preparation for the Self Test. The Self Test will check your mastery of this particular section. The items missed on this Self Test will indicate specific areas where restudy is needed for mastery.



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SELF TEST 1

Complete these items (each answer, 2 points).

1.01 What is the opposite of -12? _____

1.02 What is the opposite of 400? _____

1.03 *True or false:* If one number is negative and another number is to the left of zero on the number line, then the numbers may be opposites.

Complete these items (each answer, 3 points).

1.04 The negative integers larger than negative five are

_____.

1.05 The nonnegative even integers smaller than six are

_____.

1.06 Explain why this statement is true: The positive integers and the nonnegative integers are not the same.

1.07 Write the integers -15, 0, 51, -51, and 15 in order from smallest to largest. _____

MATHEMATICS 810 REVIEW: LIFE PAC TEST

Match these items (each answer, 2 points).

- | | |
|-----------------------------------|--|
| 1. _____ sum | a. Roman numeral |
| 2. _____ XIX | b. hundredths |
| 3. _____ numerator | c. occurs the most |
| 4. _____ π | d. an unknown |
| 5. _____ ordered pair | e. function |
| 6. _____ proportion | f. the answer in subtraction |
| 7. _____ distributive property | g. same shape |
| 8. _____ probability | h. symbol for a number |
| 9. _____ difference | i. whole number |
| 10. _____ similar | j. fractions |
| 11. _____ percent | k. a number and a fraction |
| 12. _____ variable | l. the likelihood of something happening |
| 13. _____ numeral | m. $3 \cdot (x - 1) = 3x - 3$ |
| 14. _____ integer | n. volume |
| 15. _____ rational number | o. middle term |
| 16. _____ mixed number | p. upper number in a fraction |
| 17. _____ $V = l \cdot w \cdot h$ | q. 3.14 |
| 18. _____ mode | r. the answer in addition |
| 19. _____ median | s. $3:4 = 6:x$ |
| 20. _____ denominator | t. lower number in a fraction |
| | u. the answer in division |