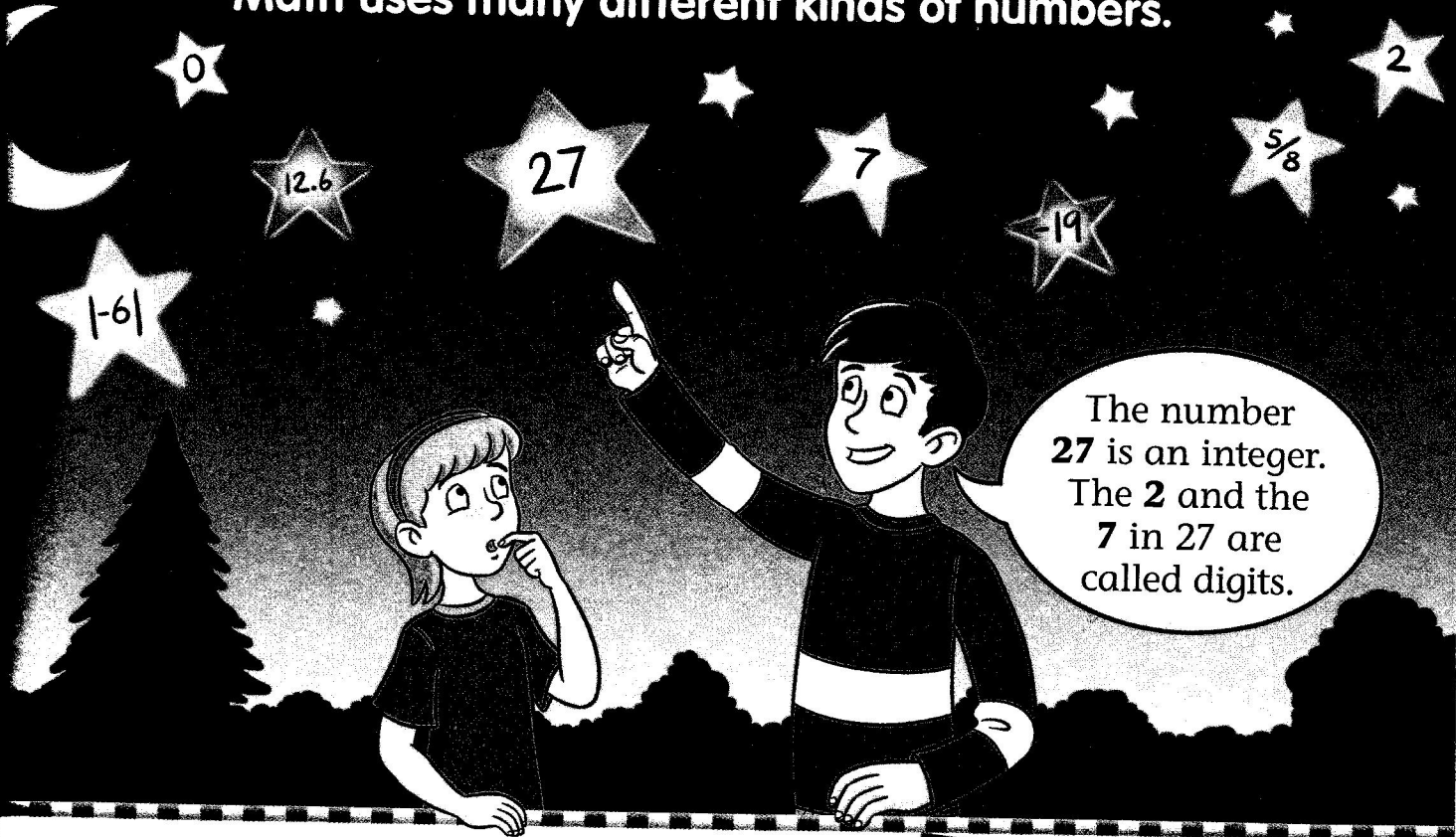


Number Sense

Skill: Understand unique math vocabulary

Math uses many different kinds of numbers.



- 1 Lay out the mats and the cards.
- 2 Read each definition on the mats and look at the examples.
- 3 Find the card that shows the word or term that the definition describes.
- 4 Place the card in the box next to the definition.
- 5 Complete the response form.

Number Sense

Number Sense

Number Sense

1 counting numbers: positive whole numbers from 1 upwards; also called natural numbers. Examples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and so on.

2 whole numbers: the numbers from 0 upwards that do not include a fraction or a decimal. Examples: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and so on.

3 integers: the numbers that have only one place. Examples: 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9.

4 integers: the whole number between -1 and 1 on a number line; a number that shows no amount but is an important place holder. Examples: 1007.00, 665, 1,005.

5 rational numbers: a number that has a numerator on top and a denominator on the bottom to show a part or parts of a whole or of a set. Examples: $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{7}{10}$.

negative number

positive number

fractional number

zero

exponent

Number Sense

1



positive whole numbers from 1 upwards; also called natural numbers

Examples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and so on

2



the numbers from 0 upwards that do not include a fraction or a decimal

Examples: 0, 1, 2, 3... 50... 934... 2,768, and so on

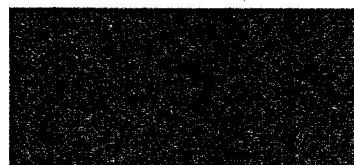
3



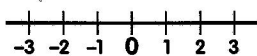
the numbers that have only one place

Examples: 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9

4




the whole number between -1 and 1 on a number line; a number that shows no amount but is an important place holder

Examples:  40.07, 80, 605, 1,003

5

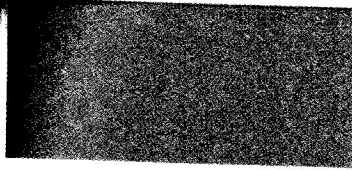


a number that has a numerator on top and a denominator on the bottom to show a part or parts of a whole or of a set

Examples:  = $\frac{1}{3}$  = $\frac{5}{8}$  = $\frac{3}{4}$

Number Sense

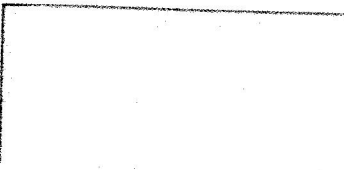
6



a kind of fraction, having a denominator that is a multiple of 10. The denominator is expressed as a place value, indicated by digits to the right of a dot, or point.

Examples: $5.39 = 5\frac{39}{100}$, $12.6 = 12\frac{6}{10}$, $252.874 = 252\frac{874}{1,000}$

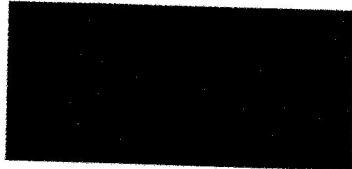
7



a small number that is raised and to the right of a base number, which shows how many times the base number should be multiplied by itself

Examples: 8^2 ($8 \times 8 = 64$), 5^4 ($5 \times 5 \times 5 \times 5 = 625$)

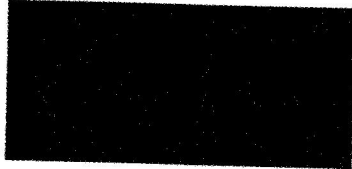
8



a number that when multiplied by itself produces a given number

Examples: $\sqrt{25} = 5$, $\sqrt{100} = 10$, $\sqrt{144} = 12$, $\sqrt{289} = 17$

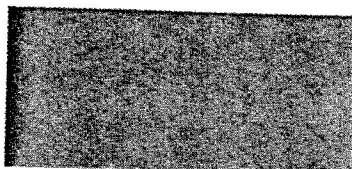
9



the positive and negative whole numbers, including zero

Examples: -140, -19, 0, 8, 27, 365, 900

10

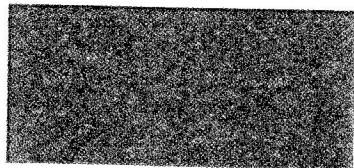


a number that is greater than zero. It is indicated by a plus sign (+) or no sign in front of the number.

Examples: +2, 5, 86, +104, 397

Number Sense

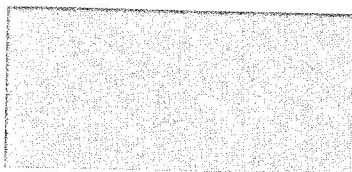
11



a number that is less than zero. It is indicated by a minus sign (-) in front of the number.

Examples: -3,205, -479, -81, -6,

12



the distance from zero for any number on a number line, regardless of whether that number is positive or negative. It is indicated by placing the number between two vertical parallel lines.

Examples: $|+6| = 6$, $|-10.4| = 10.4$



13



any number, including all integers and all fractions, that can be written as a ratio

Examples: $\frac{1}{2} = 1 \div 2$ or $1 : 2$, $7 = \frac{7}{1}$, $0.317 = \frac{317}{1,000}$

14



any number that can be written as a decimal but not as a simple fraction or ratio; a decimal that goes on forever without repeating

Example: π (pi) 3.14159...

15



any number on a number line, including large and small, positive and negative, whole numbers and zero, decimals and fractions, rational and irrational

Examples: -9,200, $\frac{85}{100}$, 0, 2, $7.\overline{58}$, 86.45, 985, 13,476

counting numbers	whole numbers	digits
fraction	decimal	exponent
integers	positive number	negative number
rational number	irrational number	real number
zero	square root	absolute value

Number Sense

Write the letter for each word or term on the line next to the correct example.
Review the definitions and examples on the mats if you need help.

- | | | | |
|----------------------|---------------------|---------------------|-----------------|
| a. absolute value | e. square roots | i. rational number | m. fractions |
| b. irrational number | f. whole numbers | j. exponents | n. integers |
| c. positive numbers | g. negative numbers | k. counting numbers | o. real numbers |
| d. digits | h. decimals | l. zero | |

_____ 5.39, 12.6, 252.874

_____ +2, 5, 86, +104, 397

_____ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12...

_____ -140, -19, 0, 8, 27, 365, 900

_____ 3.14159...

_____ -3,205, -479, -81, -6

_____ $|+6| = 6$

_____ 0, 1, 2, 3... 50... 934... 2,768...

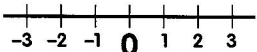
_____ -9,200, $\frac{85}{100}$, 0, 2, $7.5\overline{8}$, 985

_____ 8^2 , 5^4

_____ 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9

_____ $\frac{3}{4}$, $\frac{5}{8}$

_____ $\sqrt{25} = 5$, $\sqrt{289} = 17$

_____  40.07, 80

_____ $\frac{1}{2} = 1 \div 2$ or $1 : 2$