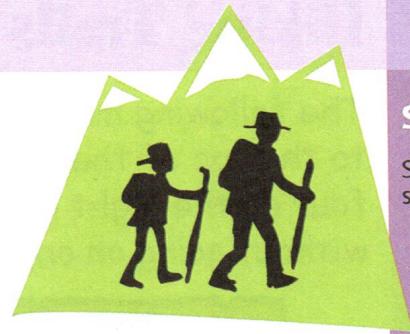


Take a Hike

Angela's family took a long hike on Maui.
Solve these problems about their hike.



Skills:

Solving Multi-step Problems

1. Angela's family went hiking and came to a bridge that has a weight limit of 500 pounds. Her father weighed 250 pounds; her aunt weighed 145 pounds; her brother weighed 48 pounds; and she weighed 65 pounds. Could they all walk on the bridge at the same time? Explain your answer.
-
-

2. Father carried a picnic lunch for the family in his backpack. The backpack weighed 6 pounds. What did the backpack weigh after they ate lunch if each person ate the following amounts? (Remember: 16 ounces equal one pound.)
 - Father ate 28 ounces of food.
 - Angela's aunt ate 20 ounces of food.
 - Angela's brother ate 10 ounces of food.
 - Angela ate 14 ounces of food.
-
-

3. Angela started out with a full canteen of water. During the first hour, she drank $\frac{1}{4}$ of the water. During the next hour, she drank $\frac{1}{2}$ of what was left. How full was her canteen at the end of the hike?
-
-

4. The family kept a log of the changes in elevation each half hour. They started the hike at an elevation of 6,080 feet. The changes in elevation for the hike were +45, +200, -80, +35, -20, and +110. What was the elevation at the end of their hike?
-
-

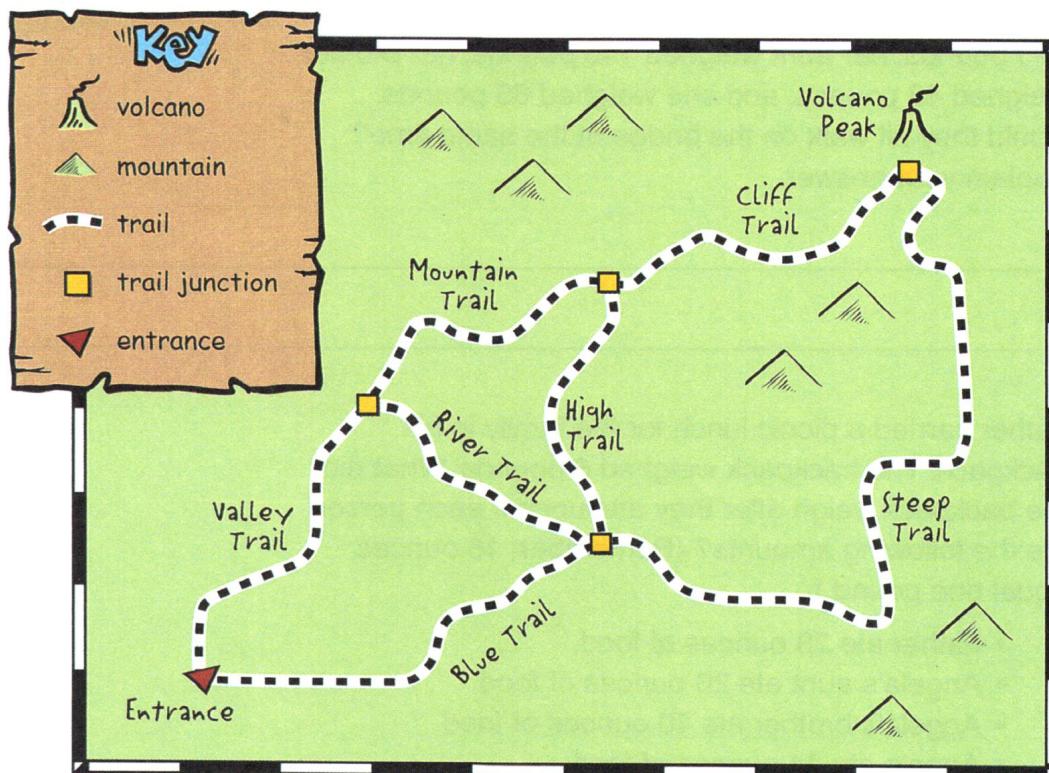
Aloha

Skills:

Using an
Organized List
to Determine
All Possible
Combinations

Hiking Trails

The following map represents different trails from the park entrance to the top of the dormant volcano. Make an ordered list to show four of the eight possible trails from the entrance to Volcano Peak, without going on any trail more than once during a single route.





What Did They Do?

Complete this logic puzzle to determine what each family did during its trip to the Hawaiian Islands.

Skills:

Solving a Logic
Puzzle

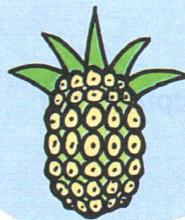
	scuba diving	surfing	hiking	kayaking	fishing	bicycling
Adams						
Chen						
Hernandez						
Jordan						
Probst						
Rice						

Clues

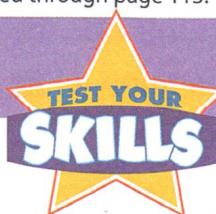
- ★ Each family participated in a different activity.
- ★ The Rice family went bicycling.
- ★ The Hernandez family did not go hiking.
- ★ The Jordan family went scuba diving.
- ★ The Chen family and the family who went hiking have both been to Hawai'i before.
- ★ The Adams family went for a longer time than the Hernandez family, but not as long as the family that went fishing.
- ★ The Probst family went surfing.

Remember:

See page 24 if you need a reminder on how to do a logic puzzle.



Aloha



Fill in the circle next to the correct answer.

1. $+9 + -2 = \underline{\hspace{2cm}}$

- (A) +11 (C) +7
 (B) -11 (D) -12

2. $-5 + -12 = \underline{\hspace{2cm}}$

- (A) +17 (C) -7
 (B) +7 (D) -17

3. What is the decimal form of $\frac{1}{2}$?

- (A) 0.25 (C) 0.12
 (B) 0.5 (D) 0.1

4. What is the fraction form of 25%?

- (A) $\frac{1}{2}$ (C) $\frac{5}{7}$
 (B) $\frac{2}{3}$ (D) $\frac{1}{4}$

5. What is the percent form of $\frac{9}{10}$?

- (A) 9% (C) 10%
 (B) 90% (D) 91%

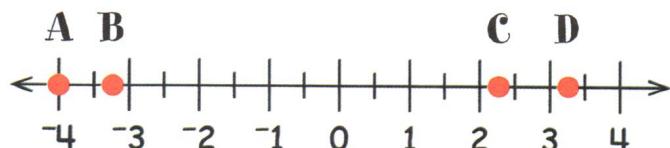
6. What does LCM stand for?

- (A) Lowest Computed Multiple
 (B) Least Computed Measurement
 (C) Least Common Multiple
 (D) Longitudinal Cartesian Measurement

7. What is the LCM of 9 and 12?

- (A) 72 (C) 1
 (B) 3 (D) 36

Use this number line for numbers 8 and 9.



8. Which point is located at $2\frac{1}{4}$?

- (A) point A (C) point C
 (B) point B (D) point D

9. Which point is located at $-3\frac{1}{3}$?

- (A) point A (C) point C
 (B) point B (D) point D

Use this function table for numbers 10 through 12.

Rule = $\div 2 + 4$	
Input	Output
4	
7	
	16

10. What is the output if the input is 4?

- (A) 6 (C) 6.5
 (B) 7 (D) 7.5

11. What is the output if the input is 7?

- (A) 6 (C) 6.5
 (B) 7 (D) 7.5

12. What is the input if the output is 16?

- (A) 24 (C) 16
 (B) 20 (D) 12

Space Quiz

What are the planets Jupiter,
Saturn, Uranus, and Neptune called?

Skills:

Using
Exponents

To find the answer to this space question, solve each problem below. Write the corresponding letter on the line above the correct answer. The letters will spell out the answer.



A $4^3 =$ _____

A $8^2 =$ _____

G $6^2 =$ _____

G $3^3 =$ _____

I $5^3 =$ _____

N $5^2 =$ _____

S $9^2 =$ _____

S $7^2 =$ _____

T $2^5 =$ _____

36

64

81

27

125

64

25

32

49

Remember:

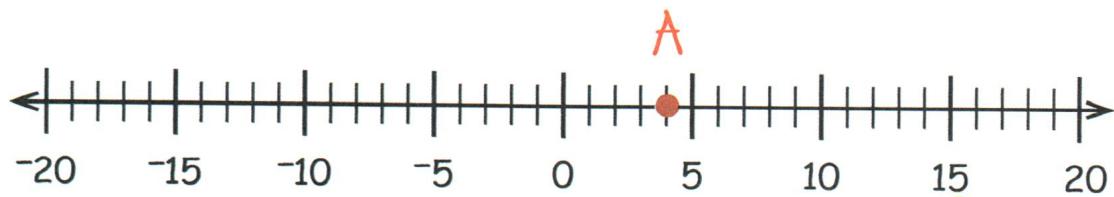
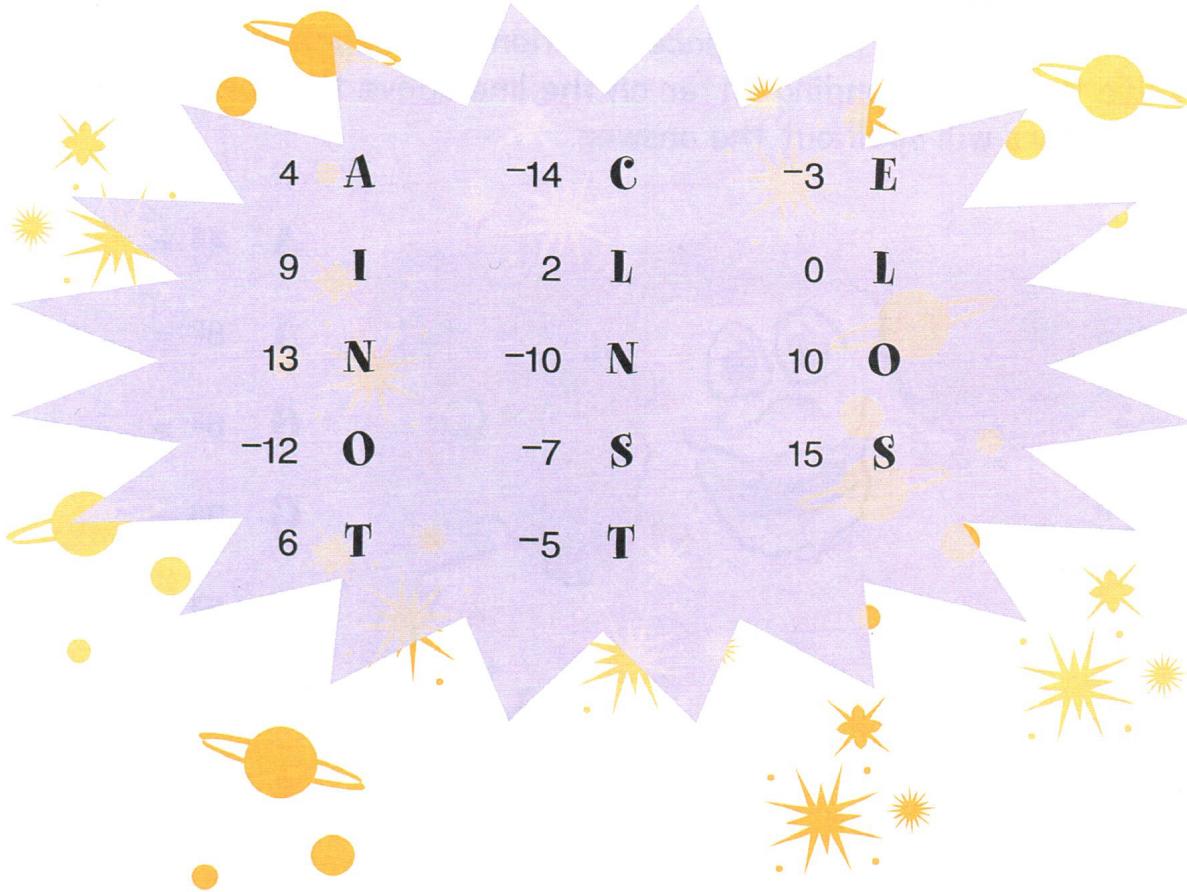
Check page 91 if you need a reminder on how to work with exponents.

Skills:

Locating
Points on a
Number Line

Mystery Word

Look at each value given below. Locate the value on the number line and write the corresponding letter above the number line. The letters will spell out the mystery word when read from left to right.



Fill in the circle in front of the meaning of the mystery word.

- the name for groups of planets orbiting a sun
- a body in space with a solid mass and a tail of gas and dust
- various groups of stars that have been given names