

Name _____ Class _____

Welcome to the wonderful world of 7th grade. In order to get a head start you will be assigned this summer packet that must be returned the first week of school in September 2018 to your new math teacher. He or she will be expecting to receive this packet.

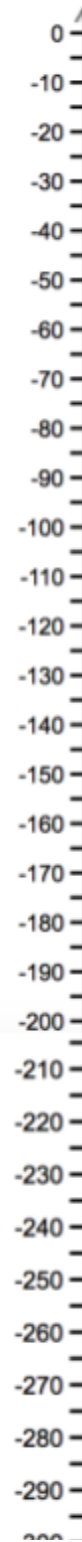
The following assignments will be broken down into tasks and www.ixl.com assignments. Please keep track of your IXL Assignments on the chart at the end of the tasks.

Task 1

1a. A deep-sea diver is at sea level. He submerges 15 feet per minute. How many feet below sea level is he after submerging for 10 minutes?

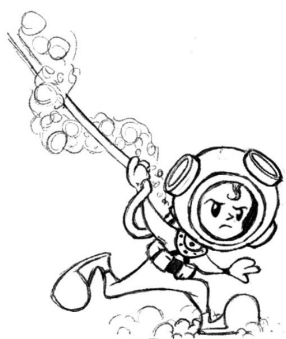
1b. Write an integer representing the deep-sea divers' current location.

2. A deep-sea exploring ship is pulling up a diver at the rate of 25 feet per minute. The diver is currently at 200 feet below sea level. How deep was the diver 2 minutes ago?



Task 2

Brenda is currently the champion of the bunny hop. She has been known to hop the farthest then any other competitor in her class. The first number below shows how far Brenda

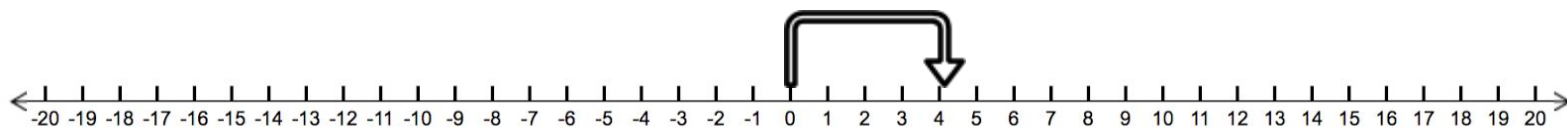


jumped on Monday. The second number line shows how far Brenda jumped on Wednesday. The last number line shows how far Brenda jumped on Friday.

WEST

MONDAY

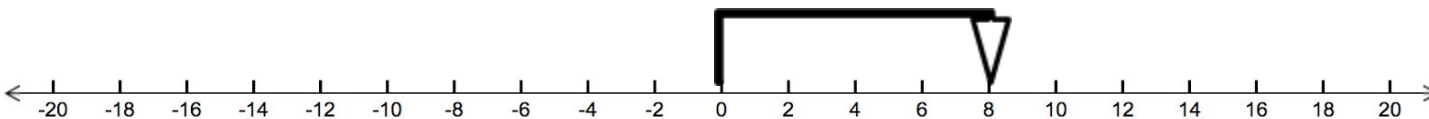
EAST



WEST

WEDNESDAY

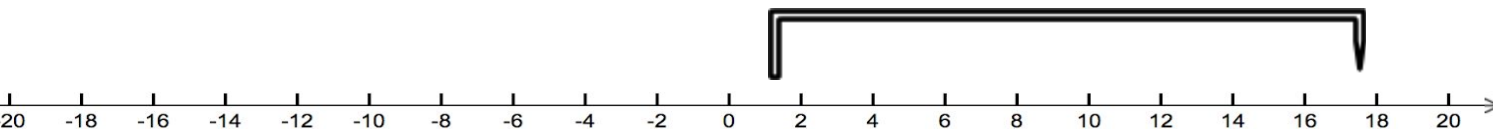
EAST



WEST

FRIDAY

EAST



1. What conclusion can we make about Brenda's jump on Monday when we compare it to her jump on Wednesday?

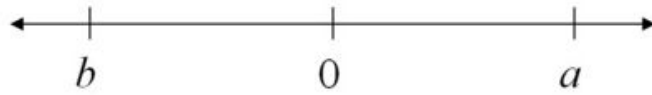
2. What conclusion can we make about Brenda's jump on Friday when we compare it to her jump on Monday?

3. On Saturday Brenda jumped the same distance she did on Friday, the only difference is she jumped West instead of east. Write the integer to represent her landing spot on the number line.

4. On Sunday Brenda combined her hop distance from all three days (Monday, Wednesday and Friday). What integer will she use if she represents on a number line going in the direction of West?

Name: _____

Task 3



On the number line above, the numbers a and b are the same distance from 0 .

A) Write three pairs of numbers that can represent a , and b that fits the given description.

Two rational numbers that are integers _____

Two rational numbers that are fractions _____

Two rational numbers that are decimals _____

B) What is true about the absolute value of a and b ? Explain why.

C) What is $a + b$? Explain how you know.

Name: _____

Date: _____

Task 4

Task

a.

At the beginning of the month, Evan had \$24 in his account at the school bookstore. Use a variable to represent the unknown quantity in each transaction below and write an equation to represent it. Then represent each transaction on a number line. What is the unknown quantity in each case?

- i. First he bought some notebooks and pens that cost \$16.
- ii. Then he deposited some more money and his account balance was \$28.
- iii. Then he bought a book for English class that cost \$34.
- iv. Then he deposited exactly enough money so that he paid off his debt to the bookstore.

b. Explain why it makes sense to use a negative number to represent Evan's account balance when he owes money.

SHOW WORK HERE

i

ii

iii

iv

b.

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IXL Assignments

Assign #	Assignment Name	Date Completed	Score Received
1	<u>Put rational numbers in order (6-P.2)</u>		
2	<u>Identify equivalent expressions (6-Y.15)</u>		
3	<u>Understanding integers (7-B.1)</u>		
4	<u>Integers on number lines (7-B.2)</u>		
5	<u>Decimal number lines (7-D.3)</u>		
6	<u>Write an equation from a graph using a table (6-BB.10)</u>		

