

Student Link

Lesson Activity for Grade 7

(Mathematics: Numbers, Patterns & Shapes)

PAGE

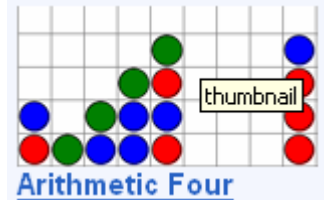
A

Student Name: _____

INSTRUCTIONS

In this lesson, you will utilize skills with integers. What are they and how do you add and subtract them?

1. Starting from the "**Grade 9**" StudentLink homepage click on "**Mathematics**".
2. Then, under the "**Number**" column click on "**Shodor: Number**".
3. Click on the activity "**Arithmetic Four**" and with a partner hone your mathematics skills by answering as quickly as you can. Start out with only addition and subtraction questions later on We'll move to more challenging questions involving integers. When you're done, move on to part 4...



Interactivate

Jump To:

Activities

Discussions

Lessons

Tools

Dictionary

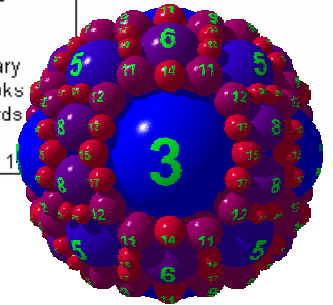
Textbooks

Standards

Version 1

Browse:

4. At the top of the page, click on "**Jump To**" to bring down the selection menu. Then click on "**Discussions**". Then scroll down the page until you come to "**Integer Discussion**". Click on the link.
5. Read through the discussion between the "**Student**" and the "**Mentor**" to gain a better understanding of what integers are. Then answer the following questions:



1) In your own words, explain what integers are.

In the discussion, the mentor told the student that as a positive numbers increased, so too did its negative counterpart. A good way to show this is through a rule:

If $x > y$ (x is greater than y), then $-x < -y$ ($-x$ is less than $-y$). Using the $>$ and $<$ signs, fill in the spaces below:

a) $5 \underline{\quad} 6$

c) $0 \underline{\quad} -1$

d) $-5 \underline{\quad} -7$

b) $7 \underline{\quad} 3$

e) $-10 \underline{\quad} -11$

f) $-2 \underline{\quad} -1$

Student Name: _____

6. Now, click on the back button until you get back to the main discussion page. Hopefully, you now have an idea about the concept of integers and what they are. But how do they fit into regular math like addition and subtraction? Click on the “**Integer Addition and Subtraction Discussion**” to learn more.

When reading, be sure to keep in mind what the mentor says about the “**Commutative Law of Addition**”:

For any two integers b and c , $b + c = c + b$. You can add them in either order, we call this the Commutative Law of Addition.

7. Read through the discussion and try the questions below to test your understanding. (Remember that two negatives always make a positive...)

8. a) $2 + 5 = \underline{\quad}$

b) $-2 + 5 = \underline{\quad}$

c) $-2 + -5 = \underline{\quad}$

d) $-2 - -5 = \underline{\quad}$

e) $-4 - -7 = \underline{\quad}$

f) $6 - -8 = \underline{\quad}$



9. Now that you've had the opportunity to understand what integers are and had some practice in adding and subtracting them, let's go back to the activity we did at the beginning, but this time we're going to try it with integers...