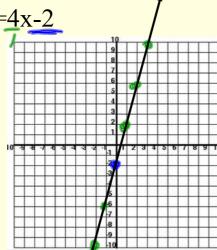
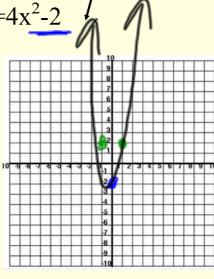
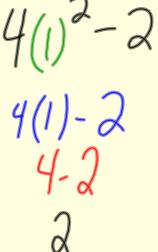


1) Graph: y=4x-2

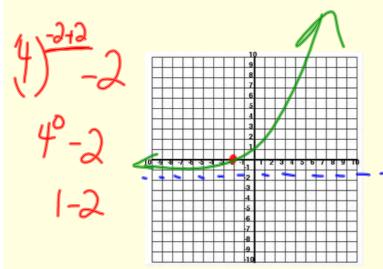


2) Graph: $y=4x^2-2$

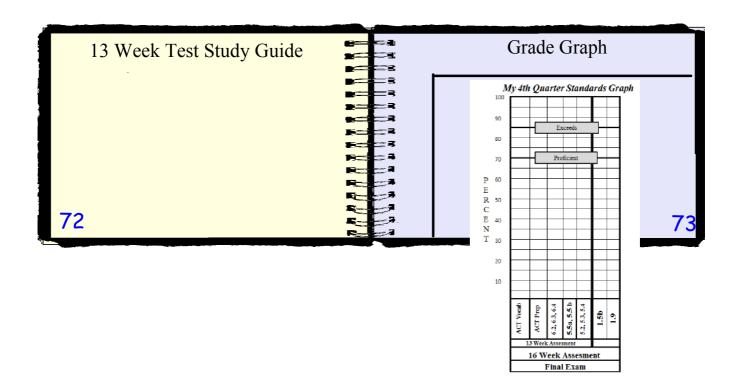


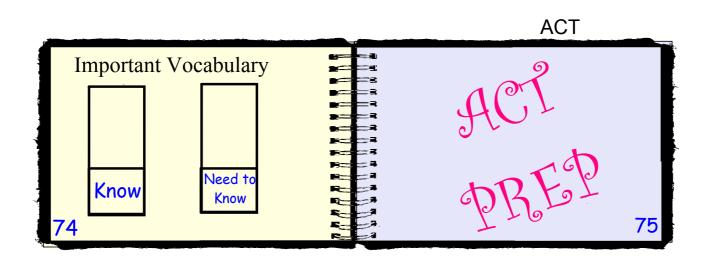


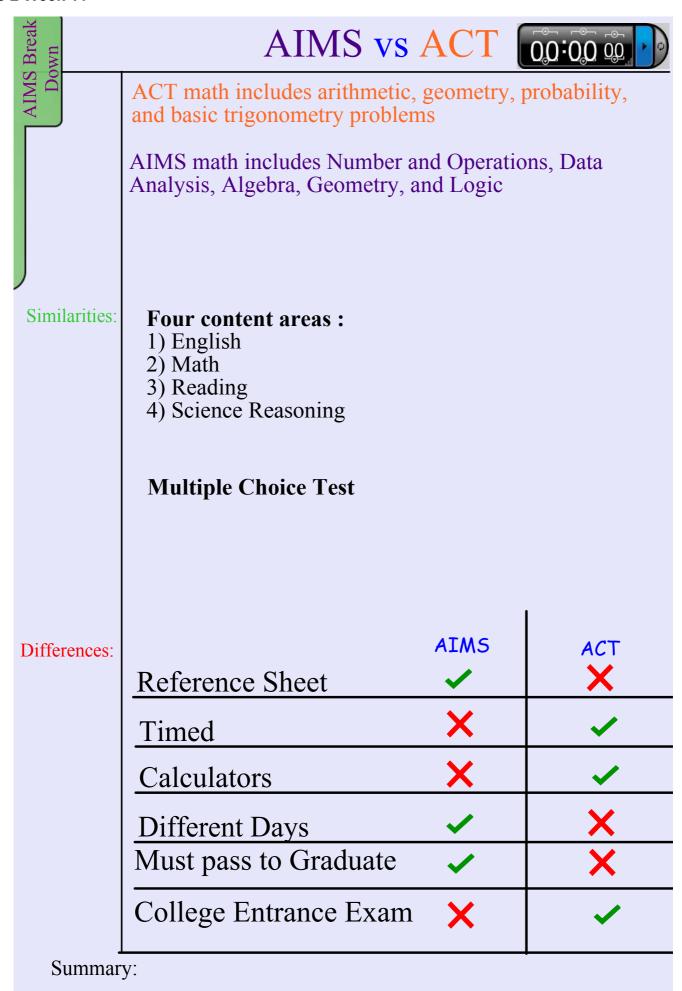
3) Graph: $y=(4)^{x+2}-2$



harizantal -2







ICA:

Everyone is getting a practice ACT test.

It is 60 questions long just like the real test.

Do not do that Math Read through it

Find words you are **not sure** what they mean and **underline** them

Find words we have talked about in class and **Circle** them

ity ICA; In Class Activity ICA; In Class Activity

Right Side...

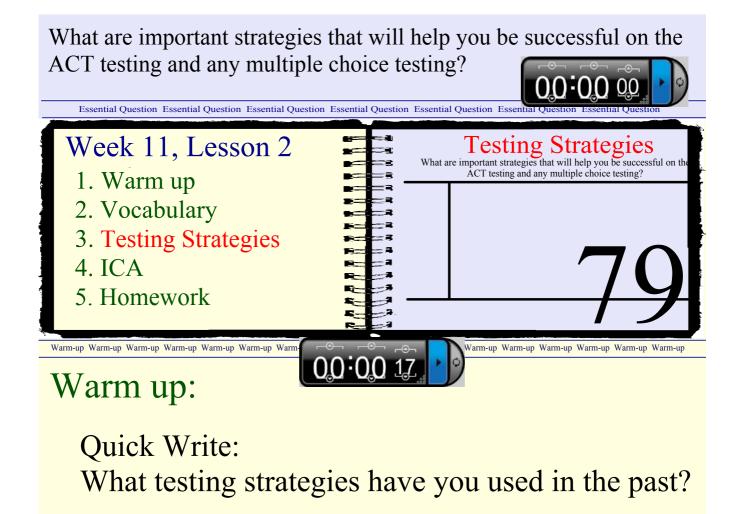
Write a summary that answers the essential question.

Left Side...

Quick write:

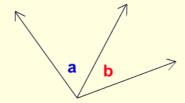
How comfortable are you with the vocabulary used on the ACT test?
On a rating Scale of 1 to 10
1 being not at all
10 being Very

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Vocabulary:

Adjoining: Lying next to each other



Arithmetic: The basic calculations we make in everyday life: addition, subtraction, multiplication and division.

$$5.5 - 3.4 = 2.1$$

 $15 / 3 = 5$
 $2 + 15 = 17$
 $3 \times (4+2) = 18$
 $25\% \text{ of } 12 \text{ is } 3$
 $\sqrt{9} = 3$
 $\sqrt{3} \times 16 = 12$

Consecutive Integers: Numbers which follow each other in order, without gaps, from smallest to largest.

13, 14, 15

Testing Strategies

Standard ACT PREP

Did you know?

If you score a 16 or better in the math section it will satisfy the AIMS high school Math Graduation Requirements

On March 22, 2010, the State Board of Education approved the following subtest scores from the SAT and ACT for the purposes of satisfying the AIMS high school graduation requirements.

AIMS HS Content Area	Reciprocal SAT test scores	Reciprocal ACT test scores 16 or higher on Combined English/Writing	
Writing	420 or higher on Writing		
Reading	420 or higher on Critical Reading	16 or higher on Reading	
Mathematics	420 or higher on Mathematics	16 or higher on Mathematics	

What does a 16 mean?

	Raw Scores				
Scale Score	Test 1 English	Test 2 Mathematics	Test 3 Reading	Test 4 Science	Scale
36	75	59-60	40	40	36
35	73-74	57-58	39	39	35
34	71-72	55-56	38	38	34
33	70	54		37	33
32	69	53	37	2_	32
31	68	52	36	36	31
30	67	50-51	35	35	30
29	66	49	34	34	29
28	64-65	47-48	33	33	28
27	62-63	45-46	32	31-32	27
26	60-61	43-44	31	30	26
25	58-59	41-42	30	28-29	25
24	56-57	38-40	29	26-27	24
23	53-55	36-37	27-28	24-25	23
22	51-52	34-35	26	23	22
21	48-50	33	25	21-22	21
20	45-47	31-32	23-24	19-20	20
19	42-44	29-30	22	17-18	19
18	40-41	27-28	20-21	16	18
17	38-39	24-26	19	14-15	17
16	35-37	19-23	18	13	16
15	33-34	15-18	16-17	12	15
14	30-32	12-14	14-15	11	14
13	29	10-11	13	10	13
12	27-28	8-9	11-12	9	12
11	25-26	6-7	9-10		11
10	23-24	5		7	10
9	20-22	5 4	8 7	6	
8	17-19			8 7 6 5 4 3	9 8 7 6 5 4
7	14-16	3	5	4	7
6	11-13		4	3	6
7 6 5 4	9-10	2	6 5 4 3	27.1	5
4	6-8		1.00	2	4
3	5	1	2	1	3
2	3-4		2	_	2
1	0-2	0	ó	0	1

Testing Strategies (con.)

Standard ACT PREP

ACT Book Says

- 1) Pace yourself
- 2) Use your Calculator WISELY!
- 3) Solve the Problem
- 4) Locate your solution among the Answers
- 5) Make Sure you answer the question
- 6) Make sure your answer is reasonable
- 7) Check your work

Multiple Choice

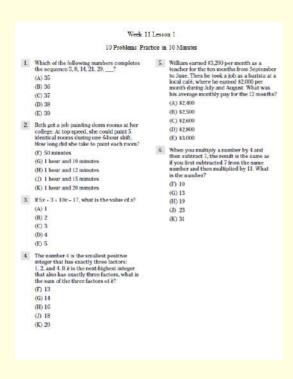
- 1) Rely on answer choices
- 2) Plug in the answer choices

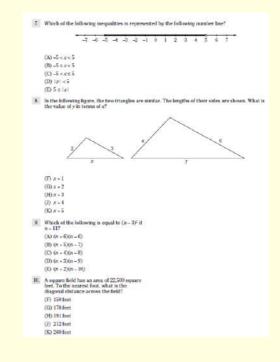
Summary:

ICA:

Use the strategies we just learned about to solve the following problems.

You have 10 minutes for the ten problems.





ICA: In Class Activity ICA: ICA: In Class Activity

ctivity

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Right Side...

Write a summary that answers the essential question.

Left Side...

Quick write:

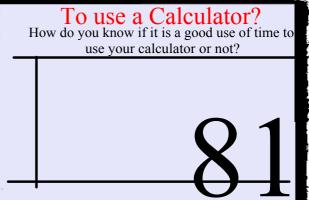
How are you feeling about the strategies we just learned about? Do you think you will use them?

How do you know if it is a good use of time to use your calculator or not?

Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question

Week 11, Lesson 3

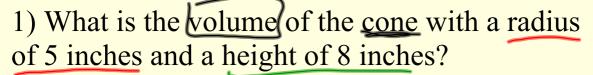
- 1. Warm up
- 2. To use a Calculator?
- 3. ICA
- 4. Homework

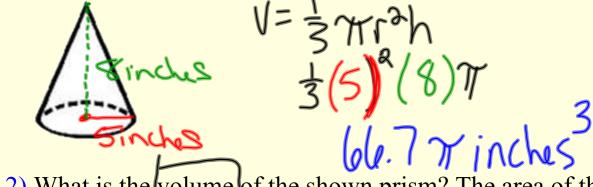


Warm up:

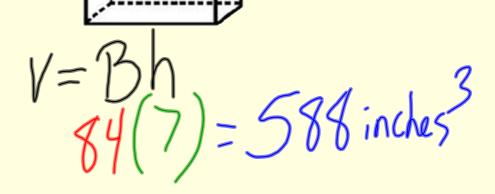


- 1) What is the volume of the cone with a radius of 5 inches and a height of 8 inches?
- 2) What is the volume of the shown prism? The area of the base is 84 inches.
- 3) You and a friend are debating about who would win a race. He says he can run 306 centimeters in ten minuets. You say you can run 4 meters every ten minuets. Who is faster? How do you know?





2) What is the volume of the shown prism? The area of the base is 84 inches.

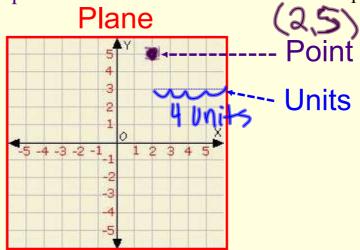


3) You and a friend are debating about who would win a race. He says he can run 306 centimeters in ten minuets. You say you can run 4 meters every ten minuets. Who is faster? How do you know?

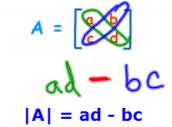
Vocabulary:

Constraint: limitation or restraint

Coordinate: plane: The plane containing the "x" axis and "y" axis unit: a measurement of one point to another point: a set of values that show an exact position.



Determinant: The determinant of a matrix is a special number that can be calculated from a square matrix.



Dimensions: A measurement of length in one direction.



Infinite: Without an end. Not finite.



To use a Calculator?

Standard ACT Prep

or not to use a Calculator? That is the question!

Simple Calculations

Time consuming calculations

Square roots

Large Number Calculations

When you are not sure

What Calculator functions are NEED to knows?

Parentheses
Pi
Square roots
Trig functions

Input-output tables Solving equations







Summary:

ICA:

ICA: In Class Activity ICA: In Class Activity

ICA: In Class Activity

ICA: In Class Activity

ICA: In Class Activity

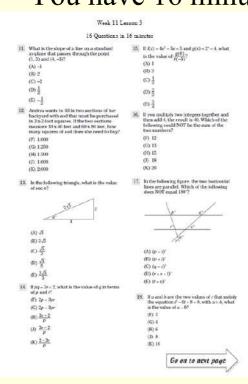
ICA:

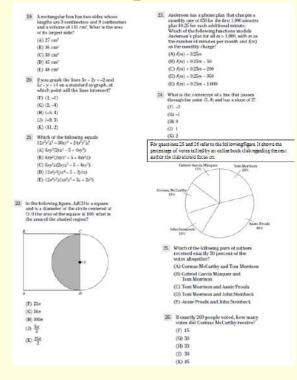
ICA: In Class Activity

ctivity

Use the strategies we just learned about to solve the following problems.

You have 16 minutes for the 16 problems.





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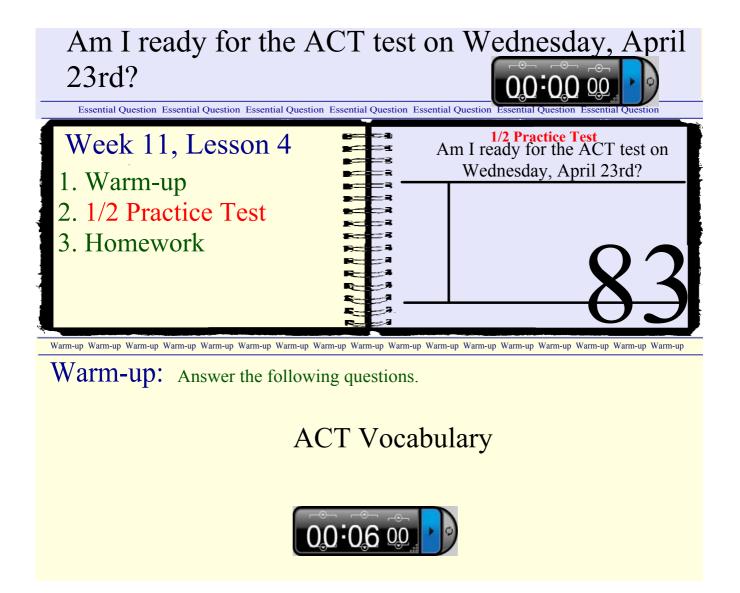
Right Side...

Write a summary that answers the essential question.

Left Side...

Quick write:

What questions do you still have about the ACT?



Vocabulary:

Least Common Multiple: The smallest number that is a multiple of two or more numbers.

Multiples of 3

$$3 \rightarrow 6 \rightarrow 9 \rightarrow 12 \rightarrow 15 \rightarrow 18 \rightarrow$$

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
 $5 \rightarrow 10 \rightarrow 15 \rightarrow 20$
Multiples of 5

Lines: Perpendicular:Lines that are at right angles (90°) to each other.



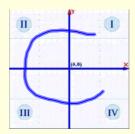
Coinciding: Two lines or shapes that lie exactly on top of each other.

*Same slopes Same y-intercepts

*Same slopes Different y-intercepts

Quadrants: Any of the 4 equal areas made by dividing a plane by an x and y axis.

*They are usually numbered I, II, III and IV



Verbal Expression: A math equation explained in words.

$$\chi^3 + 10 = 9_{\times}$$

Finite: Has an end. Could be measured, or given a value.

1/2 Practice Test Standard ACT Prep Your task: 30 questions in 30 minutes

ICA: In Class Activity ICA: In Class Activity

ICA:

Reflect:

- 1) What went well?
- 2) What did not go as well?
- 3) What would you like more help on?
- 4) Did you use any of the strategies we talked about?
- 5) How often did you use your calculator?

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