

**Chapter 1 self-test 095:** This is also on Thomson Now. It would be good practice to go there and practice using the web site as well.

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1.  
**Chapter 1.2: Fractions**

Perform the operations and enter the result as a fraction in lowest terms.

$$2\frac{1}{13} - \frac{1}{2} = \frac{\underline{\quad}}{\underline{\quad}}$$

$$\frac{1}{2} + \frac{0}{8} = \frac{\underline{\quad}}{\underline{\quad}}$$

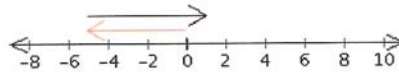
Divide your first answer by your second answer and enter the result as a fraction in lowest terms.

$\frac{\underline{\quad}}{\underline{\quad}}$

2.  
**Chapter 1.4: Adding Real Numbers**

Translate the symbols on the number line into an addition sentence. Make sure that you write your addends in the order indicated by the arrows on the number line.

$$\underline{\quad} + (\underline{\quad}) = \underline{\quad}$$



Now evaluate the sums of integers.

$$\begin{aligned} 5 + (-7) &= \underline{\quad} \\ -5 + 10 &= \underline{\quad} \\ -9 + (-2) &= \underline{\quad} \\ 8 + (-8) &= \underline{\quad} \end{aligned}$$

3.  
**Chapter 1.5: Subtracting Real Numbers**

Use the rule of additive inverses to change the expression from a subtraction problem to an equivalent addition problem and give the answer.

$$-7 - (8)$$

$$-7 + (\underline{\quad}) = \underline{\quad}$$

Evaluate the expression involving subtraction.

<http://sjc.instructor.ilrn.com/ilrn/bca/instr/test-printing/198501178/html-print?sel=1985011...> 8/25/2007

5.  $5 + (-3) - 7 + (-4) - (-5) = \underline{\hspace{2cm}}$

4.  
**Chapter 1.6: Multiplying and Dividing Real Numbers**

Perform the operations and simplify the answer.

$-\frac{1}{2}(-32 \div (-4)) = \underline{\hspace{2cm}}$

$-\frac{1}{2} \div \frac{0}{5} = \underline{\hspace{2cm}}$

5.  
**Chapter 1.7: Exponents and Order of Operations**

Evaluate the expression. Express your answer in simplest terms.

$\frac{-3(2+4) - 4}{|-26 - 3(4)|} + (-3)^3$

*sec. 1.7  
will be  
on exam 1*

6.  
**Chapter 1.8a: Analyzing Problems**

Seven years after a picture was painted, a photograph was taken. How old, in years, is the photograph if the picture is  $x$  years old?

$\underline{\hspace{2cm}}$  years

7.  
**Chapter 1.8b: Evaluating Algebraic Expressions**

Complete the table of values.

$x$	$22x - x^3$
0	$\underline{\hspace{2cm}}$
1	$\underline{\hspace{2cm}}$
-3	$\underline{\hspace{2cm}}$

*sec. 1.8 will be  
on exam 1*

8.

**Chapter 1 Challenge: An Introduction to Algebra**

Select the appropriate symbol to complete the comparison.

$-3^2 \underline{\hspace{1cm}} (-3)^2$

Simplify.

$-3^2 \left[ -\frac{x}{12} - \frac{5}{12} - \left( -\frac{7}{18} \right) \right] \div \frac{1}{36} + 8 - |-8|$

Begin by simplifying the bracketed expression. Use the least common denominator (LCD) and the corresponding values for the numerator.

$-3^2 \left[ \frac{\underline{\hspace{1cm}}x + \underline{\hspace{1cm}}}{\underline{\hspace{1cm}}} \right] \div \frac{1}{36} + 8 - |-8|$

Now completely simplify the expression and enter the result below.

<http://sjc.instructor.ilrn.com/ilrn/bca/instr/test-printing/198501178/html-print?sel=1985011...> 8/25/2007

\_\_\_ × + \_\_\_

Evaluate the expression for  $x = 2$ .

\_\_\_\_\_

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**ANSWER KEY**

**Chapter 1 Self-test for 095**

1 41, 26

1, 2

41, 13

2 - 5, 6, 1

- 2

5

- 11

0

3 - 8, - 15

- 4

4 - 4

undefined

5 -  $\frac{524}{19}$

6  $(x - 7)$

7 0

21

- 39

8 <

- 3, - 1, 36

27, 9

63

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