

**CYU Test Review #3**

Use when you get it right all by yourself  
**S** Use when you did it all by yourself, but made a silly mistake  
**H** Use when you could do it alone with a little help from teacher or peer  
**G** Use when you completed the problem in a group  
**X** Use when a question was attempted but wrong (get help)  
**N** Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Equation (Solve) VS Expression (Evaluate, Simplify)	5 - 8	17 - 20	
Inequalities	3		
Adding Real Numbers	1	21, 22	
Subtracting Real Numbers	4		
Multiplying & Dividing Real Numbers	2		
Positive, Negative, 0 or Undefined	9 - 16		
Opposites, Reciprocals	17 - 20		

**Show work to earn full credit. Choose the best CAPITAL LETTER and write that letter in the box provided.**

1. For  $-5 + (-3)$ , the operation is

- A. Addition  
 B. Subtraction  
 C. Multiplication  
 D. Division

2. For  $-5(-3)$ , the operation is

- C. Multiplication  
 A. Addition  
 B. Subtraction  
 D. Division

3. In the state of Massachusetts, there are 2221 licensed child care centers and 10,993 licensed home-based child care providers. **Write an inequality statement comparing numbers 2221 and 10,993.**

$2221 < 10,993$

4. The temperature at the Winter Olympics was a frigid 14 degrees below zero in the morning, but by noon it had risen to 31 degrees. What was the temperature at noon?

17°

Identify each as an

A. Equation

B. Expression

B

5.  $6x + 2 + 4x - 10$

A

7.  $-2(x - 1) = 12$

A

6.  $6x + 2 = 4x - 10$

B

8.  $-7\left(x + \frac{1}{2}\right) - 22$

State whether each expression simplifies to

A. Positive number

C. 0

B. Negative number

D. Not possible to determine

B

9.  $a + b$

A

13.  $a \cdot b$

A

10.  $\frac{a}{b}$

B

14.  $a - 0$

C

11.  $0 \cdot b$

D

15.  $a - b$

B

12.  $0 + b$

C

16.  $\frac{0}{a}$

The problem and the correct answer are given. Select the correct directions.

A. Find the opposite.

B. Find the reciprocal.

C. Evaluate or simplify.

17. 5, Answer:  $\frac{1}{5}$  B

19.  $2^3$ , Answer: 8 C

18.  $3 + 2(-8)$ , Answer: -13 C

20. -7, Answer: 7 A

21. A health insurance provider had net incomes of \$356 million, \$460 million, and - \$166 million in 3 consecutive years. What was the health insurance provider's total net income for these three years? \$650 million

22. A stockbroker decided to sell 280 shares of stock, which decreased in value by \$1.50 per share yesterday. How much money did she lose? \$420

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

