

Solving Equations

Math Academy 1 Worksheet 1-C

1. Evaluate.

a) $10 + 2(5)$

b) $10 + 2\sqrt{4}$

c) $5(2)^3$

d) $5(2 + 1)^3$

e) -6^2

f) $(-6)^2$

g) negative six times negative six

h) $\frac{2+4}{2+8}$

2. In two complete sentences, explain the difference between -3^2 and $(-3)^2$.

3. State the four requirements for solving equations in Math 2.

a) Do not write anything that is not...

b) Make sure the expressions...

c) Neatly write each step...

d) Make sure each symbol...

4. Solve for x . Follow the directions in #3, above, on these problems and all other solving problems in this course.

a) $x + 3 = 10$

b) $2(4x + 5) = 5x - 4$

c) $\frac{x}{3} + 5 = 12$

d) $3x^2 = 700yz$

5. Let $22x = 6$. Find the value of x , and write it as stated.

a) exactly

b) simplified

c) rounded to the nearest tenth

d) rounded to the nearest thousandth