

Equations

Name _____ Date _____

1 - What number is the "x" in these equations?

a) $5 + x = 20$

b) $21 + x = 35$

c) $12 + x = 46$

d) $20 + 3 + x = 50$

e) $13 + 4 + 5 + x = 78$

f) $17 + x + 9 + 12 = 62$

g) $8 + x + 13 = 10 + 14$

h) $5 + 24 + x = 13 + 17$

i) $12 + 3 + x = 26$

j) $x + 14 + 3 = 54$

2 - What number is the "x" in these equations?

a) $7 - x = 3$

b) $23 - x = 8$

c) $x - 12 = 34$

d) $63 - x - 5 = 45$

e) $22 - x - 5 = 12 - 2$

f) $13 - 5 - x = 2 + 4$

g) $14 - 10 - x = 1$

h) $x - 15 - 12 = 45$

i) $x + 12 - 7 = 14 - 3$

j) $7 - x + 3 = 14 - 6$

3 - Choose the expressions that illustrate each of these situations:

Tom bought 20 candy bars. He gave half to his brother and then some more to his friends. He had 3 in the end.

a) $20 + 10 + 3 = x$

b) $20 - 10 - 3 = x$

c) $20 - 10 - x = 3$

d) $20 - x + 10 = 3$

Jane had five dolls. Her mother offered her two more. Her neighbor gave her a bag with more dolls. She had 15 dolls after that.

e) $5 + 2 + 15 = x$

f) $5 + 2 + x = 15$

g) $15 - 5 - x = 2$

h) $5 - 2 + x = 15$

4 - Write the equations that illustrate these operations, and then solve them:

- a) Johnny bought a pack of milk bottles. He broke one and drank two. He had 9 bottles left. How many bottles were there in the pack?

- b) Mary had ten books. Someone stole some of them. If she was left with 6, how many books were stolen?

- c) Thomas and Lilly bought a computer game. They originally had \$97 and they only had \$19 after the purchase. How much was the computer game?

- d) Mr. Rodgers had a drawer full of scarves. He gave 8 to charity and still had 13 to wear. How many scarves did Mr. Rodgers have originally?
