Basic Equations

with Addition, Subtraction, and Multiplication

Find the value of x. Show your work.

a.
$$3x = 7 + 14$$

b.
$$40 + 22 + 10 = 9 x$$

c.
$$7 \cdot 8 = x - 4$$

d.
$$x + 35 = 20 \cdot 2$$

e.
$$12x = 6 \cdot 8$$

f.
$$78 - 28 = 10 x$$

g.
$$23 + x = 16 \cdot 4$$

h.
$$6x = 25 + 20 + 9$$

i.
$$7x = 63 - 21$$

$$\mathbf{i}$$
. $x + 12 = 9 \cdot 3$

★ Challenge:

The product of 7 and x is the same as the sum of nine and three and two. What is the value of x?

ANSWER KEY

Balancing Basic Equations

Addition, Subtraction, and Multiplication

Find the value of x. Show your work.

a.
$$3x = 7 + 14$$

x = 7

b.
$$40 + 22 + 10 = 9 \times$$

x = 8

c.
$$7 \cdot 8 = x - 4$$

x = 60

d.
$$x + 35 = 20 \cdot 2$$

x = 5

e.
$$12x = 6 \cdot 8$$

x = 4

f.
$$78 - 28 = 10 x$$

x = 5

g.
$$23 + x = 16 \cdot 4$$

x = 41

h.
$$6x = 25 + 20 + 9$$

x = 9

i.
$$7x = 63 - 21$$

x = 6

$$\mathbf{i}$$
. $x + 12 = 9 \cdot 3$

x = 15

★ Challenge:

The product of 7 and x is the same as the sum of nine and three and two. What is the value of x? x = 2