

TU
Tive

$$2(3+4)$$
$$2 \cdot 7$$
$$14$$

$$2 \cdot 3 + 2 \cdot 4$$
$$6 + 8$$
$$14$$

$$a(b+c) = ab + ac$$

$$a(b-c) = ab - ac$$

$$\begin{aligned} 9(3+4) &= 9 \cdot 3 + 9 \cdot 4 \\ 9 \cdot 7 &= 27 + 36 \\ 63 &= 63 \end{aligned}$$

$$3(4x + 3x) = 3 \cdot 4x + 3 \cdot 3x$$
$$12x + 9x$$
$$21x$$

$$\begin{aligned} &4(3 + 7y) + 8(9 - y) \\ &4 \cdot 3 + 4 \cdot 7y + 8 \cdot 9 - 8y \\ &12 + 28y + 72 - 8y \\ &84 + 20y \end{aligned}$$

Homework
Workbook
(softcover)
Page 68 & 72

$$8 + (7 + x)$$

$$15 + x$$

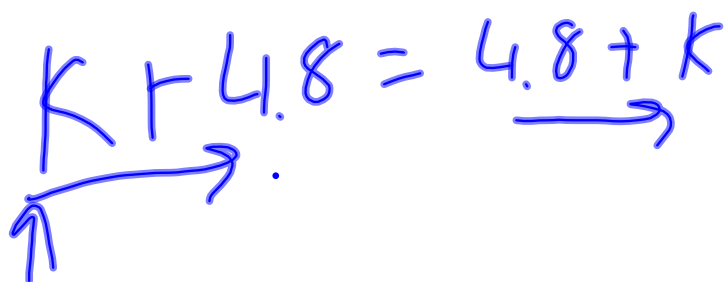
$$a(b+c)$$

$$10(11a)$$

$$(10 \cdot 11)a$$

$$110a$$



$$K + 4.8 = 4.8 + K$$


The image shows the commutative property of addition, $K + 4.8 = 4.8 + K$, written in blue ink. A horizontal arrow points from the K in the first term to the K in the second term. A vertical arrow points up to the K in the first term, and another vertical arrow points down to the K in the second term. A horizontal arrow also points from the 4.8 in the first term to the 4.8 in the second term.

Commutative Prop

$$a + b = b + a$$

$$ab = ba$$

order

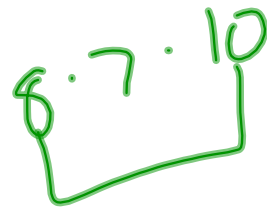
Associative Prop

$$a + (b + c) = (a + b) + c = (a + c) + b$$

group

$$a \cdot bc = ab \cdot c$$

$$21 + 37 + 9$$

$$6 \cdot 7 \cdot 10$$


Multiplicative Id

$$x \cdot 1 = x$$

Additive Id

$$x + 0 = x$$

Distributive Prop

$$a(b+c) = ab+ac$$

$$7 \cdot 53$$

$$7(50+3)$$

$$350+21$$

$$371$$

$$\begin{aligned} &7 \cdot 9 \\ &7(3+6) \\ &21+42 \\ &63 \end{aligned}$$

7. 123

7(100 + 20 + 3)

700 + 140 + 21

$$a(b+c+d)$$
$$ab+ac+ad$$

$$7 \times 49$$

$$7(40 + 9)$$

$$280 + 63$$

$$280 + 60 + 3$$

$$11(q+d)$$
$$11 \cdot 9 + 11d$$
$$99 + 11d$$

$$x + 2(x - 4)$$

$$x + 2x - 8$$

$$3x - 8$$

3(10C)
<(3.10)
30C

35 S S

$$15(p-4+2)$$

$$15p - 60 + 30$$

$$15p - 30$$

$$4t^{-2}$$

$$4t^{-2}$$

$$-2 - 1 \neq 1 - -2$$

$$-2 + -1 = -1 + -2$$

$$\begin{aligned} & 3.2 + (b + 5.7) \\ & 3.2 + 5.7 + b \\ & 8.9 + b \end{aligned}$$

$$6 \cdot (10 \cdot k)$$

$$(6 \cdot 10) \cdot k$$

$$60k$$

$$\begin{aligned}6 \times 49 \\6 \times 40 + 6 \cdot 9 \\240 + 54 \\294\end{aligned}$$

$$5(x-8)$$
$$5x - 40$$

$$7(y+3)$$
$$7y + 21$$

$$6q + 2 + 3q + 5$$

$$9q + 7$$

$$\begin{aligned} &4r + 3(r-2) \\ &4r + 3r - 6 \\ &7r - 6 \end{aligned}$$

$$21 + 42$$

$$\begin{array}{r} 21 \overline{)42} \quad 21 \\ \underline{42} \quad 21 \\ 0 \quad 21 \\ \underline{21} \\ 0 \end{array}$$

$$21(1+2)$$

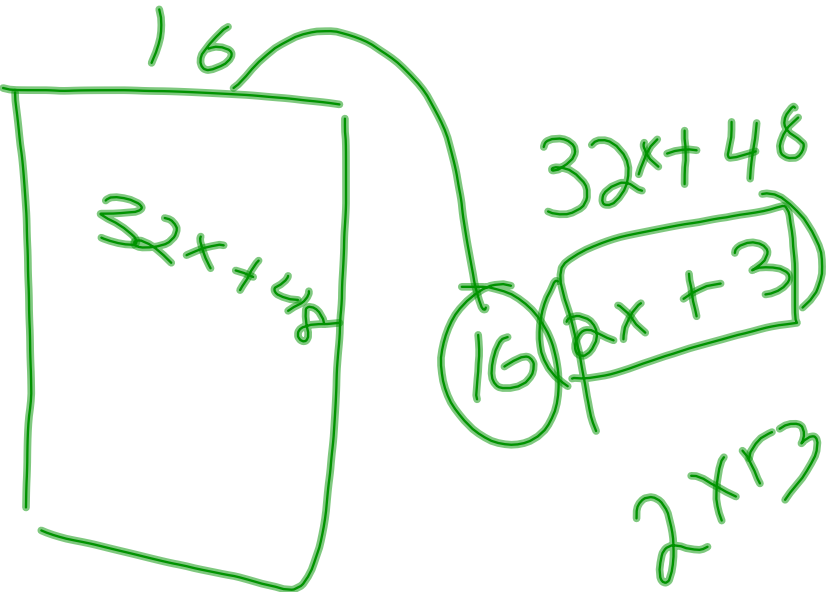
$$7(3+6)$$

$$21 + 12$$
$$3(7 + 4)$$

$$16x - 36 \qquad 2(8x - 18)$$
$$4(4x - 9)$$

$$\begin{array}{c} \overset{1}{18} + \overset{2}{7} + (\overset{3}{18} + 2x) + \overset{4}{7} \\ \hline 50 + 2x \end{array}$$

$$5(8+x)$$



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