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DISTRIBUTIVE PROPERTY: Worksheet 3

Simplify each expression.

1) $14(x+5)$

2) $7(4t+3)$

3) $-2(y-3)$

4) $3(y+6)$

5) $-2(3y+7)$

6) $5(x+1)-2(x-3)$

Solve each equation for the given variable.

7) $4(3t+1)=88$

8) $5(3x+3)=-15$

9) $-4(y-1)=-24$

10) $4(2w+8)=8$

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DISTRIBUTIVE PROPERTY: Worksheet 3

Simplify each expression.

1) $14(x+5)$ $\qquad$ $14(x+5)=14x+70$

2) $7(4t+3)$ $\qquad$ $7(4t+3)=28t+21$

3) $-2(y-3)$ $\qquad$ $-2(y-3)=-2y+6$

4) $3(y+6)$ $\qquad$ $3(y+6)=3y+18$

5) $-2(3y+7)$ $\qquad$ $-2(3y+7)=-6y-14$

6) $5(x+1)-2(x-3)$ $\qquad$ $5(x+1)-2(x-3)=$
$5x+5-2x+6=$
$3x+11$

Solve each equation for the given variable.

7) $4(3t+1)=88$

$4(3t+1)=88$
$12t+4=88$
$12t+4-4=88-4$

$12t=84$
$12t\div12=84\div12$
$t=7$

8) $5(3x+3)=-15$

$5(3x+3)=-15$
$15x+15=-15$
$15x+15-15=-15-15$

$15x=-30$
$15x\div15=-30\div15$
$x=-2$

9) $-4(y-1)=-24$

$-4(y-1)=-24$
$-4y+4=-24$
$-4y+4-4=-24-4$

$-4y=-28$
$-4y\div-4=-28\div-4$
$y=7$

10) $4(2w+8)=8$

$4(2w+8)=8$
$8w+32=8$
$8w+32-32=8-32$

$8w=-24$
$8w\div8=-24\div8$
$w=-3$