# Homework (what you don't finish in class) $1_{-7}$

Use the Distributive Property to simplify each expression.

<b>1.</b> $7(z-4)$	<b>2.</b> 3(2 + <i>w</i> )
<b>3.</b> (2 <i>h</i> – 4)11	<b>4.</b> (6 <i>y</i> – 3)5
<b>5.</b> 17(2 <i>b</i> + 3)	<b>6.</b> 12(4 – 8 <i>p</i> )
<b>7.</b> 7(11 – <i>n</i> )	<b>8.</b> (1 – 11 <i>j</i> )4

Write each fraction as a sum or difference.

<b>9.</b> $\frac{2x+3}{3}$	<b>10</b> . $\frac{11n-14}{9}$
<b>11.</b> $\frac{5t-12}{10}$	<b>12.</b> $\frac{24k+18}{6}$

Simplify each expression.

<b>13.</b> –1( <i>p</i> + 6)	<b>14.</b> – (–9 – 4 <i>y</i> )
<b>15.</b> – ( <i>a</i> – 15)	<b>16.</b> − (− <i>z</i> − 12)

### Use mental math to find each product.

<b>17.</b> 2.1 × 6	<b>18.</b> 12 × 6.8
<b>19.</b> 49 × 7	<b>20.</b> 14 × 11

- 21. You buy 125 tickets to an amusement park that each cost \$19.50. What is the total cost of the 125 tickets? Use mental math.
- 22. There are 12 sections in the stadium. Each section of the stadium can seat 1500 people. What is the total seating capacity of the stadium? Use mental math.

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# Homework 1\_7

Simplify each expression by combining like terms.

<b>23.</b> 9 <i>y</i> + 11 <i>y</i>	<b>24.</b> 23 <i>b</i> – 19 <i>b</i>
<b>25.</b> 35 <i>t</i> – 42 <i>t</i>	<b>26.</b> –4 <i>p</i> + 2 <i>p</i>
<b>27.</b> $-10x^2 - 14x^2$	<b>28.</b> $-5k^2 + 6k^2$
<b>29.</b> $7w^2 - 14w^2$	<b>30.</b> 6 <i>a</i> – 7 + 4 – <i>a</i>

## Write a word phrase for each expression. Then simplify each expression.

<b>31.</b> 3( <i>c</i> + 5	) $327(n - 1)$	1)

**33.** The profit a company receives is given by the expression 0.15(855p - 315)where p is the number of products sold. Rewrite this expression using the Distributive Property. What is the profit for 25 products sold and 150 products sold? Use mental math.

### Simplify each expression.

<b>34.</b> $7xy - xy + 3xy$	<b>35.</b> 25 <i>pq</i> + 13 <i>pq</i> - 6 - 35 <i>pq</i> + 4
<b>36.</b> $5m^2n - 3mn^2 - 7m^2n$	<b>37.</b> 3(-6 <i>fg</i> - 4)
<b>38.</b> $-vw^2 + vw - v^2w - 3vw^2 + 2v^2w$	<b>39.</b> $x + \frac{x}{4} - \frac{3x}{4}$

**40. Reasoning** Demonstrate why  $\frac{15x-5}{5} \neq 3x-5$ . Show your work.

Simplify each expression.

**41.** 
$$3(x + 4) + 2(5x + 2)$$
 **42.**  $3(2n - 7) + 7(4 - 2n)$  **43.**  $5(5 + t) - 3(t - 6)$ 

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