Below are two common errors made in simplifying algebraic expressions. Correct the errors and then explain your correction with specific reference to the Distributive Property.

1. $\frac{24x+7}{6}=4x+7$
2. $3x-\left(2x+5\right)= x+5$

Use the Distributive Property to simplify the following expressions:

|  |  |
| --- | --- |
| 1. (2x – 5) (3x – 1)
 | 1. (7x +2)2
 |

**Thinking Back**

Use the expression below to answer questions #3-6:

$$10y^{2}+2y+8 $$

1. What are the terms of the expression? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What are the factors of the first term? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What are the common factors of the terms? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the coefficient of *y*? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_