Factoring Practice

1. 4x - 28

$4 \overline{\smash{)}\, 1x,\ 7}$

$4(1x - 7)$

2. 3x + 33y

$3 \overline{\smash{)}\, 3x \mid 33y}$
$\phantom{3 \overline{)}\ } 1 \mid 11$

GCF: 3

$3(1x + 11y)$

3. 4x + 35

$(4x + 35)$ Cannot be Factored

4. Mr. Joe's monthly income can be represented by the expression 5x + 120 where x is the number of hours worked. Factor the expression.

$5 \overline{\smash{)}\, 5x,\ 120}$
$\phantom{5 \overline{)}\ } 1x \mid 24$

$5(x + 24)$
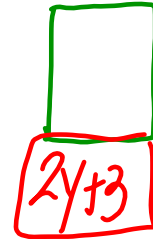
5. A square's perimeter can be represented by the expression 8y + 12. Factor the expression to find the length of one side.

GCF: 4

$$2 \,|\, 8y + 12$$
$$2 \,|\, 4y + 6$$
$$2y + 3$$

$$4(2y + 3)$$

$$2y + 3$$

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6. Six friends go out to eat. The expression 6x + 18 represents their total cost. How much did each person pay?

$$6 \,|\, 6x + 18$$
$$1x + 3$$

$$6(x + 3)$$

$$(x + 3)$$

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