Practice

SIDE 1

Find the GCF. Use the GCF to factor each expression.

1) $6x + 30$

$6 \div 6 \quad 30 \div 6$

GCF of 6 and 30: 6

$\frac{6}{GCF}(x + 6)$ (divide each term by GCF)

2) $30x - 15$

GCF of 30 and 15: _____

___(−)

3) $7x + 56$

GCF of 7 and 56: _____

___(+)

4) $18x - 12$

GCF of 18 and 12: _____

___(−)

5) $12x + 8$

GCF of 12 and 8: _____

___(+)

6) $18x + 36$

GCF of 18 and 36: _____

___(+)

7) $20x + 55$

GCF of 20 and 55: _____

___(+)

8) $18x - 16$

GCF of 18 and 16: _____

___(−)

9) $30x - 12$

GCF of 30 and 12: _____

___(−)

10) $45x - 72$

GCF of 45 and 72: _____

___(−)

11) $28x + 35$

GCF of 28 and 35: _____

___(+)

12) $8x + 24$

GCF of 8 and 24: _____

___(+)

Practice

Write the expression that I had to distribute to get each result.

1) $5x + 30$

__(+)

2) $3x - 15$

__(−)

3) $8x + 56$

__(+)

4) $10x - 6$

__(−)

5) $12x + 8$

__(+)

6) $9x + 36$

__(+)

7) $20x + 5$

__(+)

8) $6x - 16$

__(−)

9) $24x - 12$

__(−)

10) $16x - 8$

__(−)

11) $15x + 10$

__(+)

12) $9x + 81$

__(+)

Practice

Find the GCF. Use the GCF to factor each expression.

AKey

1) $6x + 30$

$6 \div 6 \quad 30 \div 6$

GCF of 6 and 30: 6

$\frac{6}{\text{GCF}}(x + 5)$ (divide each term by GCF)

2) $30x - 15$

GCF of 30 and 15: 15

$15(2x - 1)$

3) $7x + 56$

GCF of 7 and 56: 7

$7(x + 8)$

4) $18x - 12$

GCF of 18 and 12: 6

$6(3x - 2)$

5) $12x + 8$

GCF of 12 and 8: 4

$4(3x + 2)$

6) $18x + 36$

GCF of 18 and 36: 18

$18(x + 2)$

7) $20x + 55$

GCF of 20 and 55: 5

$5(4x + 11)$

8) $18x - 16$

GCF of 18 and 16: 2

$2(9x - 8)$

9) $30x - 12$

GCF of 30 and 12: 6

$6(5x - 2)$

10) $45x - 72$

GCF of 45 and 72: 9

$9(5x - 8)$

11) $28x + 35$

GCF of 28 and 35: 7

$7(4x + 5)$

12) $8x + 24$

GCF of 8 and 24: 8

$8(x + 3)$

Alg 1

Practice

Write the expression that I had to distribute to get each result.

1) $5x + 30$ (÷5)

$5(x + 6)$

2) $3x - 15$ (÷3)

$3(x - 5)$

3) $8x + 56$ (÷8)

$8(x + 7)$

4) $10x - 6$ (÷2)

$2(5x - 3)$

5) $12x + 8$ (÷4)

$4(3x + 2)$

6) $9x + 36$ (÷9)

$9(x + 4)$

7) $20x + 5$ (÷5)

$5(4x + 1)$

8) $6x - 16$ (÷2)

$2(3x - 8)$

9) $24x - 12$ (÷12)

$12(2x - 1)$

10) $16x - 8$ (÷8)

$8(2x - 1)$

11) $15x + 10$ (÷5)

$5(3x + 2)$

12) $9x + 81$ (÷9)

$9(x + 9)$