Factor

15x + 35 =   8x + 10 =

30x + 24 =   12x + 42 =

28x + 49 =   28x + 36 =

21x + 42 =   48x + 56 =

81x + 45 =   15x + 6 =

63x + 21 =   6x + 15 =

63x + 54 =   32x + 36 =

30x + 25 =   28x + 21 =

20x + 40 =   45x + 25 =

18x + 12 =   27x + 18 =

Answer Key

Factor

15x + 35 = 5(3x + 7)   8x + 10 = 2(4x + 5)

30x + 24 = 6(5x + 4)   12x + 42 = 6(2x + 7)

28x + 49 = 7(4x + 7)   28x + 36 = 4(7x + 9)

21x + 42 = 21(1x + 2)   48x + 56 = 8(6x + 7)

81x + 45 = 9(9x + 5)   15x + 6 = 3(5x + 2)

63x + 21 = 21(3x + 1)   6x + 15 = 3(2x + 5)

63x + 54 = 9(7x + 6)   32x + 36 = 4(8x + 9)

30x + 25 = 5(6x + 5)   28x + 21 = 7(4x + 3)

20x + 40 = 20(1x + 2)   45x + 25 = 5(9x + 5)

18x + 12 = 6(3x + 2)   27x + 18 = 9(3x + 2)

Factor

45x + 54 =   21x + 9 =

24x + 42 =   18x + 72 =

12x + 18 =   54x + 72 =

24x + 8 =   40x + 25 =

81x + 18 =   10x + 45 =

10x + 6 =   28x + 35 =

32x + 56 =   63x + 28 =

14x + 16 =   72x + 64 =

72x + 48 =   49x + 56 =

32x + 20 =   36x + 42 =

Answer Key

Factor

$45x + 54 = 9(5x + 6)$

$21x + 9 = 3(7x + 3)$

$24x + 42 = 6(4x + 7)$

$18x + 72 = 18(1x + 4)$

$12x + 18 = 6(2x + 3)$

$54x + 72 = 18(3x + 4)$

$24x + 8 = 8(3x + 1)$

$40x + 25 = 5(8x + 5)$

$81x + 18 = 9(9x + 2)$

$10x + 45 = 5(2x + 9)$

$10x + 6 = 2(5x + 3)$

$28x + 35 = 7(4x + 5)$

$32x + 56 = 8(4x + 7)$

$63x + 28 = 7(9x + 4)$

$14x + 16 = 2(7x + 8)$

$72x + 64 = 8(9x + 8)$

$72x + 48 = 24(3x + 2)$

$49x + 56 = 7(7x + 8)$

$32x + 20 = 4(8x + 5)$

$36x + 42 = 6(6x + 7)$

Factor

24x + 56 =   28x + 63 =

8x + 4 =   40x + 10 =

30x + 10 =   24x + 36 =

18x + 24 =   32x + 24 =

12x + 20 =   24x + 18 =

28x + 24 =   12x + 10 =

40x + 45 =   72x + 63 =

16x + 18 =   12x + 32 =

56x + 32 =   81x + 18 =

16x + 8 =   27x + 36 =

Answer Key

Factor

$24x + 56 = 8(3x + 7)$ $28x + 63 = 7(4x + 9)$

$8x + 4 = 4(2x + 1)$ $40x + 10 = 10(4x + 1)$

$30x + 10 = 10(3x + 1)$ $24x + 36 = 12(2x + 3)$

$18x + 24 = 6(3x + 4)$ $32x + 24 = 8(4x + 3)$

$12x + 20 = 4(3x + 5)$ $24x + 18 = 6(4x + 3)$

$28x + 24 = 4(7x + 6)$ $12x + 10 = 2(6x + 5)$

$40x + 45 = 5(8x + 9)$ $72x + 63 = 9(8x + 7)$

$16x + 18 = 2(8x + 9)$ $12x + 32 = 4(3x + 8)$

$56x + 32 = 8(7x + 4)$ $81x + 18 = 9(9x + 2)$

$16x + 8 = 8(2x + 1)$ $27x + 36 = 9(3x + 4)$

Factor

42x + 12 =   40x + 64 =

24x + 42 =   36x + 27 =

14x + 10 =   27x + 21 =

30x + 25 =   6x + 12 =

6x + 18 =   81x + 36 =

48x + 24 =   36x + 54 =

18x + 6 =   20x + 12 =

6x + 8 =   14x + 12 =

6x + 18 =   45x + 20 =

21x + 56 =   45x + 63 =

Answer Key

Factor

42x + 12 = 6(7x + 2)   40x + 64 = 8(5x + 8)

24x + 42 = 6(4x + 7)   36x + 27 = 9(4x + 3)

14x + 10 = 2(7x + 5)   27x + 21 = 3(9x + 7)

30x + 25 = 5(6x + 5)   6x + 12 = 6(1x + 2)

6x + 18 = 6(1x + 3)   81x + 36 = 9(9x + 4)

48x + 24 = 24(2x + 1)   36x + 54 = 18(2x + 3)

18x + 6 = 6(3x + 1)   20x + 12 = 4(5x + 3)

6x + 8 = 2(3x + 4)   14x + 12 = 2(7x + 6)

6x + 18 = 6(1x + 3)   45x + 20 = 5(9x + 4)

21x + 56 = 7(3x + 8)   45x + 63 = 9(5x + 7)

Factor

20x + 24 =   8x + 36 =

8x + 12 =   42x + 35 =

18x + 30 =   81x + 72 =

63x + 42 =   49x + 63 =

12x + 30 =   30x + 48 =

63x + 56 =   24x + 64 =

36x + 45 =   32x + 24 =

20x + 16 =   56x + 63 =

24x + 36 =   15x + 20 =

36x + 72 =   35x + 28 =

Answer Key

Factor

20x + 24 = 4(5x + 6)   8x + 36 = 4(2x + 9)

8x + 12 = 4(2x + 3)   42x + 35 = 7(6x + 5)

18x + 30 = 6(3x + 5)   81x + 72 = 9(9x + 8)

63x + 42 = 21(3x + 2)   49x + 63 = 7(7x + 9)

12x + 30 = 6(2x + 5)   30x + 48 = 6(5x + 8)

63x + 56 = 7(9x + 8)   24x + 64 = 8(3x + 8)

36x + 45 = 9(4x + 5)   32x + 24 = 8(4x + 3)

20x + 16 = 4(5x + 4)   56x + 63 = 7(8x + 9)

24x + 36 = 12(2x + 3)   15x + 20 = 5(3x + 4)

36x + 72 = 36(1x + 2)   35x + 28 = 7(5x + 4)

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