Solve these equations.

1. 3(3x + 5) = 60
2. 4(x + 3) = 40
3. 2(x + 3) = 26
4. 6(1 – 5m) = 126
5. -2(1 – 5v) = 28
6. 84 = 3(4 + 3r)
7. -6(7k + 11) = 18
8. -3(3x – 12) = -9

These are the solutions to your partner’s problems. Use this answer key to check their work.

1. 4(8n + 2) = 40

32n + 8 = 40

 -8 -8

 32n = 32

 32 32

 N = 1

1. 3(7x – 1) = 39

21x + -3 = 39

 +3 +3

 21x = 42

 21 21

 X = 2

1. 120 = 10(8 + 2x)

120 = 80 + 20x

-80 -80

 40 = 20x

20 20

 2 = x

1. -4(3x + 2) = -32

-12x + -8 = -32

 +8 +8

 -12x = -24

 -12 -12

 X = 2

1. -2(3 – 7x) = 22

-6 + 14x = 22

+6 +6

 14x = 28

 14 14

 X = 2

1. -1(2 – 2n) = 0

-2 + 2n = 0

+2 +2

 2n = 2

 2 2

 N = 1

1. 2(1 – 4x) = 18

 2 + -8x = 18

-2 - 2

 -8x = 16

 -8 -8

 X = -2

1. 8 = 8(x – 4)

 8 = 8x + -32

+32 +32

40 = 8x

8 8

5 = x

Solve these equations.

1. 4(8n + 2) = 40
2. 3(7x – 1) = 39
3. 120 = 10(8 + 2x)
4. -4(3x + 2) = -32
5. -2(3 – 7x) = 22
6. -1(2 – 2n) = 0
7. 2(1 – 4x) = 18
8. 8 = 8(x – 4)

These are the solutions to your partner’s problems. Use this answer key to check their work.

1. 3(3x + 5) = 60

9x + 15 = 60

 - 15 -15

 9x = 45

 9 9

 X = 5

1. 4(x + 3) = 40

4x + 12 = 40

 -12 -12

 4x = 28

 4 4

 X = 7

1. 2(x + 3) = 26

2x + 6 = 26

 -6 -6

 2x = 20

 2 2

 X = 10

1. 6(1 – 5m) = 126

6 + -30m = 126

 -6 -6

 -30m = 120

 -30 -30

 m = 4

1. -2(1 – 5v) = 28

-2 + 10v = 28

+2 +2

 10v = 30

 10 10

 V = 3

1. 84 = 3(4 + 3r)

84 = 12 + 9r

-12 -12

72 = 9r

 9 9

 8 = r

1. -6(7k + 11) = 18

-42k + -66 = 18

 +66 +66

 -42k = 84

 -42 -42

 K = -2

1. -3(3x – 12) = -9

-9x + 36 = -9

 -36 -36

 -9x =

 -9 -9

 X = 5