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