**D-1 Extra Practice Key**

**Extra Practice Answers**

**1. a)** *x* = 9.3

Left Side = 0.4(9.3) Right Side = 5.58 – 0.2(9.3)

= 3.72 = 5.58 – 1.86

= 3.72

Left side = Right side

**b)** *x* = 8

Left Side = 7.2 + 2.3(8) Right Side = 3.2(8)

= 7.2 + 18.4 = 25.6

= 25.6

Left side = Right side

**c)** *x* = –9

Left Side =  Right Side = 

=  = 

=  = –6

= –6

Left side = Right side

**d)** *m* = 14

Left Side =  Right Side = 14 + 7

=  = 21

= 21

Left side = Right side

**e)** *x* = 23

Left Side =  Right Side = 10

= 

= 10

Left side = Right side

**f)** *m* = 5.7

Left Side = 1.4(5.7) Right Side = 1.5(5.7) – 0.57

= 7.98 = 8.55 – 0.57

 = 7.98

Left side = Right side

**2. a)** *x* = 7

Left Side =  Right Side = 

=  = 

=  = 

 = 

Left side = Right side

**b)** *x* = 36.7

Left Side Right Side

= 1.3(36.7) + 64.2 = 2.7(36.7) + 12.82

= 47.71 + 64.2 = 99.09 + 12.82

= 111.91 = 111.91

Left side = Right side

**c)** *n* = 4.5

Left Side = 5(4.5) – 6.4 Right Side = 3(4.5) + 2.6

= 22.5 – 6.4 = 13.5 + 2.6

= 16.1 = 16.1

Left side = Right side

**d)** *n* = –42

Left Side =  Right Side =

= –21 – 3 = 

= –24 = 4 – 28

 = – 24

Left side = Right side

**e)** 

Left Side =  Right Side = 

=  =

=  = 

= 

Left side = Right side

**f)** *m* = 50

Left Side = 1.2(50) – 17 Right Side = 8 + 0.7(50)

= 60 – 17 = 8 + 35

= 43 = 43

Left side = Right side

**3. a)** *m* = –3

Left Side = 5(–3 + 1) Right Side = 2(–3 – 2)

= 5(–2) = 2(–5)

= –10 = –10

Left side = Right side

**b)** *x* = 5

Left Side = 0.3[2(5)–1] – 2.3 Right Side = 0.04(5 + 5)

= 0.3(9) – 2.3 = 0.04(10)

= 2.7 – 2.3 = 0.4

= 0.4

Left side = Right side

**c)** *x* = –2

Left Side = 10(–2) + 6 Right Side = 4(–2) – 6

= –20 + 6 = –8 – 6

= –14 = –14

Left side = Right side

**d)** *m* = 3

Left Side = Right Side = 

=  = 

=  = 3

= 3

Left side = Right side

**4. a)** The dimensions of the garden are 4 m
by 13 m.

**b)** There were 19 quarters and 11 dimes in the cash register.