1) $(14 + 7)/3 = 21/3 = 7$
   ID: cbm8h 1-1
   Diff: 1   Page Ref: pgs 2-3

2) $5 * 7 = 35$
   ID: cbm8h 1-4
   Diff: 1   Page Ref: pgs 2-3

3) $9 * 3 + 5 * 10 = 27 + 50 = 77$
   ID: cbm8h 1-7
   Diff: 1   Page Ref: pgs 2-3

4) $5/20 = .25$
   ID: cbm8h 1-5
   Diff: 1   Page Ref: pgs 2-3

5) $30 + 8\left[\dfrac{6^2 - 4(3 - 1)}{4}\right] - 6$

$$= 30 + 8\left[\dfrac{36 - 4(2)}{4}\right] - 6$$

$$= 30 + 8\left[\dfrac{36 - 8}{4}\right] - 6$$

$$= 30 + 8\left[\dfrac{28}{4}\right] - 6$$

$$= 30 + 8(7) - 6$$

$$= 30 + 56 - 6$$

$$= 80$$

   ID: cbm8h 1-8
   Diff: 2   Page Ref: pgs 2-3

6) $395 * (2 + .15 * .7945206) = 395 * (2 + .1191781) = 395 * (2.1191781) = 837.075$
   ID: cbm8h 1-10
   Diff: 2   Page Ref: pgs 4-6

7) $268/(4400 * .4262295) = 268/1875.4098 = .1429021$
   ID: cbm8h 1-9
   Diff: 2   Page Ref: pgs 4-6

8) $5000/(1 + .1 * .5) = 5000/(1+0.05) = 5000/1.05 = 4761.90$
   ID: cbm8h 1-15
   Diff: 2   Page Ref: pgs 4-6

9) $2m$
   ID: cbm8h 2-1
   Diff: 1   Page Ref: pgs 42-43

10) $-5y$
   ID: cbm8h 2-2
   Diff: 1   Page Ref: pgs 42-43

11) $1.16x$
   ID: cbm8h 2-4
   Diff: 1   Page Ref: pgs 42-43

12) $-ax - x - 6$
   ID: cbm8h 2-7
   Diff: 1   Page Ref: pgs 42-43

13) $-4 + 6a + 8 - 6a = -4$
   ID: cbm8h 2-9
   Diff: 2   Page Ref: pgs 42-43

14) $45ab$

ID: cbm8h 2-14
Diff: 1   Page Ref: pgs 43-44

15) $18m^2$

ID: cbm8h 2-16
Diff: 1   Page Ref: pgs 43-44

16) $120abc$

ID: cbm8h 2-18
Diff: 1   Page Ref: pgs 43-44

17) $72y - 32 - 2y + 2 - 1 + 3y = 73y - 31$

ID: cbm8h 2-23
Diff: 2   Page Ref: pgs 43-44

18) $5m^2 - 60mn - 2mn + 24n^2 = 5m^2 - 62mn + 24n^2$

ID: cbm8h 2-25
Diff: 2   Page Ref: pgs 43-44

19) $2(7a^2 - 3a - 7a + 3) - 3(12a^2 + 6a - 4a - 2)$

$= 14a^2 - 6a - 14a + 6 - 36a^2 - 18a + 12a + 6$

$= -22a^2 - 26a + 12$

ID: cbm8h 2-28
Diff: 2   Page Ref: pgs 43-44

20) $-10y$

ID: cbm8h 2-29
Diff: 1   Page Ref: pg 45

21) $-10y$

ID: cbm8h 2-29
Diff: 1   Page Ref: pg 45

22) $4x^2 - 10xy - 8y^2$

$= 4(-3)^2 - 10(-3)(5) - 8(5)^2$
$= 4(9) + 150 - 8(25)$
$= 36 + 150 - 200$
$= -14$

ID: cbm8h 2-37
Diff: 2   Page Ref: pgs 45-46

23) $\frac{1}{2}(3x^2 - x - 1) - \frac{1}{4}(5 - 2x - x^2)$

$= \frac{1}{2}[3(-3)^2 - (-3) - 1] - \frac{1}{4}[5 - 2(-3) - (-3)^2]$

$= \frac{1}{2}(27 + 3 - 1) - \frac{1}{4}(5 + 6 - 9)$

$= \frac{1}{2}(29) - \frac{1}{4}(2)$

$= 14.5 - 0.5$
$= 14.0$

ID: cbm8h 2-38
Diff: 2   Page Ref: pgs 45-46

24) $\dfrac{I}{PT} = \dfrac{83}{845 * \dfrac{216}{360}} = \dfrac{83}{845 * 6} = \dfrac{83}{507} = .163708$

    ID: cbm8h 2-39
    Diff: 3   Page Ref: pgs 45-46

25) $p = 3120\left[1 - .123\left(\dfrac{295}{360}\right)\right] = 3120[1 - .123 * .8194444]$
    $= 3120[1 - .1007917] = 3120[.8992083] = 2805.53$

    ID: cbm8h 2-45
    Diff: 2   Page Ref: pgs 45-46

26) 1
    ID: cbm8h 2-50
    Diff: 1   Page Ref: pgs 45-46

27) -1
    ID: cbm8h 2-60
    Diff: 1   Page Ref: pgs 45-46

28) $x^{16+4-2} = x^{18}$
    ID: cbm8h 2-71
    Diff: 2   Page Ref: pgs 49-53

29) $(1 - r)^8$
    ID: cbm8h 2-77
    Diff: 2   Page Ref: pgs 49-53

30) $\dfrac{a^{5\times3} b^{6\times3}}{x^{1\times3}} = \dfrac{a^{15} b^{18}}{x^3}$

    ID: cbm8h 2-80
    Diff: 2   Page Ref: pgs 49-53

31) $\sqrt{205.9225} = 14.35$
    ID: cbm8h 2-84
    Diff: 1   Page Ref: pgs 56-59

32) 1.01
    ID: cbm8h 2-85
    Diff: 2   Page Ref: pgs 56-59

33) 20.727529
    ID: cbm8h 2-90
    Diff: 2   Page Ref: pgs 56-59

34) .9156104
    ID: cbm8h 2-94
    Diff: 3   Page Ref: pgs 56-59

35) $\dfrac{1 - .5393906}{.0295} = \dfrac{.4606094}{.0295} = 15.61388$

    ID: cbm8h 2-96
    Diff: 3   Page Ref: pgs 54-55

36) $x = \dfrac{40}{8} = 5$

    ID: cbm8h 2-110
    Diff: 3   Page Ref: pgs 68-73

37) $x = -49 * \dfrac{-3}{4} = \dfrac{147}{4} = 36.75$

ID: cbm8h 2-117
Diff: 1   Page Ref: pgs 68-73

38) $-9x = 9, x = -1$
ID: cbm8h 2-119
Diff: 1   Page Ref: pgs 68-73

39) $51 + 34 = -x + 14x, 85 = 13x, 6.538462 = x$
LS: $51 - 14(6.538462) = 51 - 91.53846 = -40.53846$
RS: $-34 - 6.53846 = -40.53846$
ID: cbm8h 2-124
Diff: 1   Page Ref: pgs 68-73

40) $5(2x - 4) - 3(1 - 3x) = -64$
$10x - 20 - 3 + 9x = -64$
$19x = -41$
$x = 2.1578947$
LS: $5[2(-2.1578947) - 4] - 3[1 - 3(-2.1578947)] = -64$
    $5[-4.3157895 - 4] - 3[1 - (-6.4736842)] = -64$
    $5[-8.3157895] - 3[7.4736842] = -64$
    $-41.578948 - 22.421053 = -64$
    $-64 = -64$
RS: $= -64$
ID: cbm8h 2-130
Diff: 2   Page Ref: pgs 68-73

41) $\dfrac{14}{5}(4 - 3x) + \dfrac{23}{40} = \dfrac{7}{10}x - \dfrac{3}{8}(2x - 3)$

$112(4 - 3x) + 23 = 28x - 15(2x - 3)$
$448 - 336x + 23 = 28x - 30x + 45$
$471 - 336x = -2x + 45$
$426 = 334x$
$1.2754491 = x$
ID: cbm8h 2-135
Diff: 3   Page Ref: pgs 75-77

42) $\dfrac{(R + r)}{r} = \dfrac{V}{v}$

$v(R + r) = Vr$
$V = \dfrac{v(R + r)}{r}$

ID: cbm8h 2-137
Diff: 2   Page Ref: pgs 77-79

43) $I = Prt, t = \dfrac{I}{Pr}$

ID: cbm8h 2-139
Diff: 1   Page Ref: pgs 77-79