

DEV 031 – Practice Final**Answer Key**

1 -155

2 23

3 48

4 -41

5 -13

6 undefined

7 -2

8 C

9 20

10 -5

11 $20W - 20$

12 $4A - 2$

13 $P = 9$

14 $R = 19$

15 $X = 2$

16 $W = 8$

17
$$\frac{2J^2L^4}{3}$$

18
$$\frac{6B^2}{5A^2}$$

19
$$\frac{3 + 2DB}{6B}$$

20 Estimate 11 cups

Exact $11\frac{1}{12}$ cups

21 $1\frac{17}{64}$ or $\frac{81}{64}$

22 -24

23 -16

24 -14

25 $2X - 6$

26 $-9 \div X + 5$

27 Equation $49 = s^2$

Solution 7 m

28 Equation $124 = 2L + 2(25)$

Solution 37 cm

29 Equation $6X = 2X - 8$

Solution -2

30 Equation $4X - 2 - 3 - X = 13$

Solution 6 light bulbs

31 Equation $X + 2X = 1620$

Susanna \$540 Nikki \$1080

32 Equation $2(2X + 3) + 2X = 24$

Length 9 cm Width 3 cm

33 No solution

34 $X = 26$

35 $X = 4$

- 36** Equation $3(X + 6) + 4 = -2$
 Solution $X = -8$
- 37** Equation $4X + X + 2(4X) = 26$
 Losses 8 Ties 2 Wins 16
- 38** Equation $180 - X = 3(90 - X) - 38$
 Solution 26°
- 39** Equation $X + 6(X + 2) = 89$
 Smaller 11 Larger 13
- 40** $K = \frac{2L + M}{4}$
- 41** D (Quadrant IV)
- 42** $30M^{11}$
- 43** $64G^{15}H^3$
- 44** 2
- 45** $\frac{1}{F^4}$
- 46** $\frac{1}{H^8}$
- 47** 2.35×10^5
- 48** Scientific Notation 9.6×10^{-5}
 Standard Notation 0.000096
- 49** a) Evaluate
 b) Solve
 c) Simplify
- 50** $3X - 5 = 2(X + 5)$
 $3(15) - 5 = 2(15 + 5)$
 $45 - 5 = 2(20)$
 $40 = 40$; the solution is correct