# PR2 PROBLEM BANK ANSWER KEY

## LESSON 1

1.  10%

2.  a.  Judy: 20
        Jane: 70

    b.  $\frac{20}{100}$ ; $\frac{70}{100}$

    c.  Judy: 0.2, 20%
        Jane: 0.7, 70%

3.  She is incorrect.  Figure A is not 0.60 it is 0.66... since it is 2 out of 3 squares.

4.

|     | Fraction or mixed number | Decimal | Percent |
|-----|--------------------------|---------|---------|
| a.  | $\frac{3}{4}$            | 0.75    | 75%     |
| b.  | $\frac{1}{2}$            | 0.5     | 50%     |
| c.  | $\frac{1}{4}$            | 0.25    | 25%     |
| d.  | $\frac{4}{5}$            | 0.8     | 80%     |
| e.  | $\frac{1}{5}$            | 0.2     | 20%     |
| f.  | $\frac{2}{25}$           | 0.08    | 8%      |
| g.  | $\frac{1}{50}$           | 0.02    | 2%      |
| h.  | $\frac{7}{20}$           | 0.35    | 35%     |
| i.  | $\frac{9}{1000}$         | 0.009   | 0.9%    |
| j.  | $\frac{8}{5}$            | 1.6     | 160%    |
| k.  | $\frac{3}{50}$           | 0.06    | 6%      |
| l.  | $\frac{235}{1000}$       | 0.235   | 23.5%   |
| m.  | $\frac{13}{20}$          | 0.65    | 65%     |
| n.  | $\frac{89}{100}$         | 0.89    | 89%     |

5.  a.  62.5%      b.  2%       c.  80%
    d.  33.3%      e.  87.5%    f.  33.3%
    g.  8%         h.  14%

# LESSON 2

1. 
   a.  7
   b.  30
   c.  3
   d.  6
   e.  150
   f.  128
   g.  2
   h.  9

2. 
   a.  300
   b.  150
   c.  450
   d.  60
   e.  120
   f.  180
   g.  30
   h.  90
   i.  6
   j.  12
   k.  3
   l.  9
   m.  It would have more liquid than it is big enough to hold.  There would be 900 ounces.
   n.  600 ounces
   o.  No, it would not be possible to hold 150% of the container because it would spill out of the countainer.

3. 
   a.  9 months
   b.  12 girls and 18 boys
   c.  32 questions

4. 
   a.  $20
   b.  $28
   c.  $34

5. One and two-thirds gallons of paint left.

6. 
   a.  90 almonds
   b.  37.5%

7. Bruno is incorrect because he is taking 10% of the remaining amount each time. He is not taking 10% of the original number each time.

# LESSON 3

1.    a.   $11        b.   $40        c.   $150
       d.   $15        e.   $525        f.   $30
       g.   $120        h.   $112.50

2.    a.   $36.80        b.   Yes, with tax it would be a total of $496.80.

3.    $6.30

4.    a.   140 computers        b.   240 computers

5.    Yes, you will have enough money because it would cost a total of $246.10.

6.    a.   Stores mark up items so they can make a profit.
       b.   $28.80        c.   $30.24

7.    a.   $300        b.   $125

8.    a.   $102        b.   $82        c.   $86.92

9.    a.   $19.20        b.   $7.20

10.    a.   $31.50        b.   $33.25        c.   Jilly's Jeans