**4UIQM: Element 1: Numeracy for Business**

**Solutions to activities**

|  |  |
| --- | --- |
| **Activity 1** | 1. 180
2. 40
3. 96
 |
| **Activity 2** | Positive |
| **Activity 3** | 1. Improper
2. Mixed
3. Proper
4. Improper
 |
| **Activity 4** | 1. $3\frac{26}{45}$
2. $4\frac{1}{20}$
3. $\frac{2}{9}$
 |
| **Activity 5** | 1. Any two relevant examples such as $\frac{1}{3}$ and $\frac{3}{9}$ and $\frac{1}{4}$ and $\frac{4}{16}$
2. Any two relevant examples such as $\frac{1}{3}$ = 0.3 and $\frac{2}{3}$ = 0.67
 |
| **Activity 6** | 1. 1.8
2. 0.64
3. 5.33
4. 3.6
5. 6.0
 |
| **Activity 7** | 1. $2\frac{15}{22}$ or 2.68
2. $-6\frac{13}{20}$ or -6.65
 |
| **Activity 8** | 1. $0.045623 × 10^{5}$
2. $289.3 × 10^{7}$
3. $623540 × 10^{-3}$
4. $8752.3 × 10^{-1}$
 |
| **Activity 9** | 1. 5.0505
2. 8010
3. 6322500000
4. 8.745
 |
| **Activity 10** | 1. 60%
2. 53.33%
3. 3.33%
4. 385.71%
 |
| **Activity 11** | 1. $\frac{1731}{5000}$
2. $\frac{841}{1000}$
3. $1\frac{4}{25}$
4. $\frac{111}{200}$
 |
| **Activity 12** | 30 students |
| **Activity 13** | 1. 75%
2. 0.11%
3. 400%
 |
| **Activity 14** | 15% |
| **Activity 15** | 1. 1:3
2. 1:4
3. 6:5
 |
| **Activity 16** | Activity 161. 180, 120, 60
2. 1800, 1500, 1200
3. $12000
 |
| **Activity 17** | Before = $12000 and After = $10000 |
| **Activity 18** | Stock and shares = $2720Parents = $8000Remainder = $21280 |
| **Activity 19** | 1. 7.5
2. 2.7
3. 9
4. 2
 |
| **Activity 20** | 1. 0.6
2. 3000
3. 28
 |
| **Activity 21** | $945 |
| **Activity 22** | 7% |
| **Activity 23** | 10 years |
| **Activity 24** | A sum of money accumulating 3% compound interest for 12 years |
| **Activity 25** | 1. $6167.08
2. $5686.18
3. $6532.89
4. $5407.16
 |
| **Activity 26** | 20% |
| **Activity 27** | $13586 |
| **Activity 28** | After 6 years |
| **Activity 29** | $1560 |
| **Activity 30** | $45 |
| **Activity 31** | $107.41 |