



5. b                      6. a)  $3^4$                       b)  $3^5$                       c)  $2^8$                       d)  $2^{10}$                       7. 2,187

Unit 1.4

1. a) D                      b) C                      c) B                      d) E                      e) A  
 2. a) 1                      b) 9                      c) 25                      d) 36                      e) 64                      f) 144  
 3. a) 4                      b) 16                      c) 49                      d) 121                      e) 225                      f) 324  
 4. a) 13                      b) 14                      c) 30                      d) 32  
 5. 25                      6. 11                      7. c                      8. 256                      9. 324

Unit 1.5

1. a) 13,17,21                      b) 29,39,51                      c) 19,25,32                      d) 16,20,24                      e) 14,11,8                      f) 75,85,95  
    g) 28,36,45                      h) 48,96,192                      i) 80,160,320                      j) 1,111; 11,111; 111,111  
 2. a) 20                      b) 13                      c) 16  
 3. a)  $44+4=48$                       b)  $14 \times 4=56$                       c)  $16+40=56$   
     $55+5=60$                        $15 \times 5=75$                        $25+50=75$   
     $66+6=72$                        $16 \times 6=96$                        $36+60=96$   
 4. a) 2; 10; 50; 250; 1,250                      b) 3; 10; 17; 24; 31  
    c) 100; 85; 70; 55; 40                      d) 128; 64; 32; 16; 8  
 5. b                      6. a) 2018                      b) yes

Unit 1.6

1. one hundred seventy-five million, six hundred five-thousand, two hundred and eighty-four; 600,000 and 70,000,000  
 2. 999,999,999; 100,000,000; 1,099,999,999; 899,999,999;  
 nine hundred ninety-nine million, nine hundred ninety-thousand, nine hundred ninety-nine; one billion  
 3. b  
 5. a) 618; 1,290; 1,900; 2,315; 2,340  
    b) Mississippi with 25 miles  
    c) Missouri  
 6. b  
 8. no; 9  
 9. b) 2                      c) 3                      d)  $1+2+3+4+3+2+1$   
    e)  $1+2+3+4+5+4+3+2+1$                       f)  $1+2+3+4+5+6+5+4+3+2+1$   
    g) 7                      h)  $1+2+3+4+5+6+7+8+7+6+5+4+3+2+1$   
    i)  $1+2+3+4+5+6+7+8+9+8+7+6+5+4+3+2+1$