

1. Round 20 600 043 to the nearest million. **21 000 000**
2. Round 20 600 043 to the nearest ten million. **20 000 000**
3. The sides of a rectangle are 7 ft and 12 ft long.
  - (a) Find the perimeter of the rectangle.  **$P = 38$  ft**
  - (b) Find the area of the rectangle.  **$A = 84$  ft<sup>2</sup>**
4. Find the average of 11, 3, 5, 10, and 6. **7**
5. Find the average of 1, 2, 3, 4, 5, 6, and 7. **4**
6. Consider the following numbers: 390, 600, 2005, 9192, 1110 010.
  - (a) Use the rule of divisibility by 2 to find all numbers from the list that are divisible by 2.  
**390, 600, 9192, 1110 010**
  - (b) Use the rule of divisibility by 4 to find all numbers from the list that are divisible by 4.  
**600, 9192**
  - (c) Use the rule of divisibility by 5 to find all numbers from the list that are divisible by 5.  
**390, 600, 2005, 1110 010**
7. List all factors of 30. **1, 2, 3, 5, 6, 10, 15, 30**
8. Perform the following divisions. Express your answer by giving the quotient and the remainder. For example,  $71 \div 5 = 14$  R 1.
  - (a)  $2005 \div 11 =$  **182 R 3**
  - (b)  $20600043 \div 12 =$  **1716670 R 3**
9. Perform the following operations as indicated. Show all steps..
  - (a)  $\frac{5^2 - (4^2 + 3 \cdot 2) + 6 - 2^2 - 3}{2^3 - 3 \cdot 2} =$  **1**
  - (b)  $3 \cdot 2^2 - (7 - 3 + (3 \cdot 5 - 2(2^4 - 10))) =$  **5**
  - (c)  $\frac{3^4 - 3^3 + 3^2 - 3^1}{2^4 - 2^3 + 2^2 - 2^1} =$  **6**
  - (d)  $120 \div 6 \cdot 2 - (6 \cdot 4 - (5^2 - 3)) =$  **38**
  - (e)  $\frac{5^3 - 2^2 \cdot 5^2}{3^3 - 2(2^3 + 3)} =$  **5**
  - (f)  $(2(4^2 - 3) - 3(3^2 - 7)) \div 4 \cdot 7 =$  **35**
  - (g)  $\frac{(1 + 3 + 6)^2}{1^2 + 3^2} - 2\frac{6 \cdot 8 - 3 \cdot 5}{3^2 + 2} =$  **4**
10. A, B, and C worked together for a week. Together they made \$1200. They split the money into six equal shares. A took three shares, B took two shares, and C took one share. How much did they take each? **A takes \$600, B takes \$400, and C takes \$200.**