

1. The sides of a rectangle are 3 in and 7 in long.
 - (a) Find the perimeter of the rectangle. $P = 20 \text{ in}$
 - (b) Find the area of the rectangle. $A = 21 \text{ in}^2$

2. Consider the following numbers: 360, 605, 1250, 9198, 111 000.
 - (a) Use the rule of divisibility by 2 to find all numbers from the list that are divisible by 2.
 $360, 1250, 9198, 111\ 000$
 - (b) Use the rule of divisibility by 5 to find all numbers from the list that are divisible by 5.
 $360, 605, 1250, 111\ 000$
 - (c) Use the rule of divisibility by 10 to find all numbers from the list that are divisible by 10.
 $360, 1250, 111\ 000$

3. Perform the following operations. Show all steps.
 - (a) $120 \div 4 \div 2 = 15$
 - (b) $18 + 24 \div 3 = 26$
 - (c) $\frac{18 + 24}{3} = 14$
 - (d) $(7 - 2)^2 = 25$
 - (e) $7^2 - 2^2 = 45$
 - (f) $18 - 5 - 1 = 12$
 - (g) $16 \cdot \frac{2^5 - 5^2}{2^3 - 1^3} = 16$
 - (h) $\frac{5 + (5^2 - 3^2) + (5^3 - 3^3) - 3}{5^2 + (5 - 3)^2} = 4$
 - (i) $2^6 - 2(3^2 + 2^3) + 3(2(15 - 2^3) - 2^2) = 60$
 - (j) $4(3(2(2^2 - 1) + 1) - 11) - (8 - 2)^2 = 4$
 - (k) $\frac{(3^3 - 4 \cdot 5) - (2^2 - 2^1)}{4^2 - (3^2 + 2)} = 1$

4. Perform the following divisions. Express your answer by giving the quotient and the remainder. For example, $71 \div 5 = 14 \text{ R } 1$.
 - (a) $2005 \div 5 = 401$
 - (b) $2005 \div 7 = 286 \text{ R } 3$

5. We will receive some money! \$1000 will be split into 5 equal shares and we will receive 2 shares from these. How much money are we getting? $\$400$

6. Insert parentheses into the following statement so that it becomes true:

$$2 \cdot (8 - 3) + 3 \cdot 5 - 4 = 21$$