

- Use words to write the number 628 201 030.
six hundred twenty-eight million, two hundred one thousand, thirty
- The following number is written in standard form. Write it in expanded form. 6061 601
$$6 \cdot 1000\,000 + 6 \cdot 10\,000 + 1 \cdot 1000 + 6 \cdot 100 + 1 \cdot 1$$
- Rounding.
 - Round 293 375 to the nearest hundred. 293 400
 - Round 293 375 to the nearest thousand. 293 000
- The sides of a rectangle are 20 cm and 30 cm long.
 - Find the perimeter of the rectangle. Include units in your answer. $P = 100$ cm
 - Find the area of the rectangle. Include units in your answer. $A = 600$ cm²
- Consider the following numbers: 2529, 685, 4190, 7170, 48 011.
 - Use the rule of divisibility by 2 to find all numbers from the list that are divisible by 2. 4190, 7170
 - Use the rule of divisibility by 3 to find all numbers from the list that are divisible by 3. 2529, 7170
 - Use part a) and b) to find all numbers from the list that are divisible by 6. 7170
- Find the product of the four smallest prime numbers. $2 \cdot 3 \cdot 5 \cdot 7 = 210$
- List all the factors of 75. 1, 3, 5, 15, 25, 75
- The following numbers are all primes except for one. Which number listed is NOT a prime?
7, 71, 91, 109, 211 $91 = 7 \cdot 13$
- Find the prime factorization for 960. $960 = 2^6 \cdot 3 \cdot 5$
- Use the prime factorization method to find the least common multiple of 42 and 96. 672
- Perform the following operations. Show all steps.
 - $$\left(\frac{(2 \cdot 3 - 4)^3 + 2(3^3 - 3 \cdot 7)}{5} \right)^3 = 64$$
 - $7^2 - 4^2 + (7 - 4)^2 = 42$
 - $(2 - 1)(2^2 - 1^2)(2^3 - 1^3)(2^4 - 1^4) = 315$
 - $19^2 - 4^2 - (19 - 4)(19 + 4) = 0$
- Let $x = 5$, $y = 3$, and $z = 2$. Evaluate each of the following expressions.
 - $2x + 3y = 24$

(b) $3x + y - 2zy = 6$

(c) $3x^z + y^y - 2x = 38$

(d) $xyz - xy + 2xz - 3yz = 17$

(e) $(x - y)^2 + (z + 1)^3 = 31$