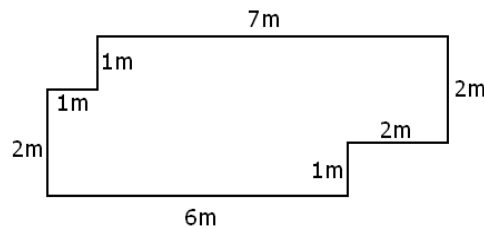


- Use digits to write the number seventy-five million, fifteen thousand, three hundred ninety-eight.
- The following number is written in expanded form. Write it in standard form.

$$3 \cdot 100\,000\,000 + 2 \cdot 1\,000\,000 + 5 \cdot 10\,000 + 9 \cdot 1\,000 + 7 \cdot 100 + 1 \cdot 10 + 4 \cdot 1$$

- Round 27 193 451 to the nearest hundred thousand.
- Consider the figure shown on the picture below.



- Find the perimeter of the figure. Include units in your answer.
 - Find the perimeter and area of the rectangle. Include units in your answer.
- Consider the numbers 20 040, 6164, 4990, 628, 650.
 - Find all numbers from the list that are divisible by 4.
 - Find all numbers from the list that are divisible by 5.
 - Find all numbers from the list that are divisible by 20.
 - List all factors of 370.
 - Which one of the following is NOT a prime number? 79, 93, 111, 129, 131
 - Find the least common multiple of 110 and 85.
 - Find the average of -2 , 0 , 7 , -22 , 0 , 6 , and -3 .
 - We will receive some money. We have two offers to choose from. Plan A is to split \$ 6 000 into five equal shares and we receive two shares. Plan B is to split \$ 10 000 into four equal shares and we get one share. Which plan is better for us, A or B?
 - Perform the indicated operations. Show all steps.
 - $(-4 + (-3)^2 \cdot (-1) + (-2)^3 \cdot (1 - (7 - 3^2))) =$
 - $(3 + (-1))(-5) + 2 - 7 \cdot 3 + (-2)^2 =$
 - $\frac{12 \div 3 \cdot 2 + (-7 + 9)^3}{1 - 3(2 - 7)} =$

$$(d) \frac{5^2 + (-3)(-2)(3^2 - 11) - (1 - 3)^2}{|14 \div (-7)| - 3} =$$

12. Evaluate each of the following expressions if $x = 2$, $y = -3$, $z = -4$, and $u = 5$.

$$(a) -2(x + u) + 2(y - z)^2 - 3x =$$

$$(b) (x - y)^2 - (y - x)^2 + y + 2z =$$

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

13. Consider the equation $10(x^2 - 4) + x^3 = -x + 2(x^2 + 1)$. In each case, determine whether the number given is a solution of the equation or not.

$$(a) x = 0$$

$$(b) x = 3$$

$$(c) x = -3$$

$$(d) x = -7$$

$$(e) x = -2$$

$$(f) x = 2$$

14. Solve each of the following equations. Make sure to check your solution.

$$(a) 2b = -6$$

$$(b) y - 4 = -1$$

$$(c) \frac{k}{-2} = -12$$

$$(d) m + 7 = 2$$