

- Use words to write the number 1010010001. **one billion, ten million, ten thousand, one**
- The following number is written in standard form. Write it in expanded form. 1002455001.

$$1 \cdot 1000\,000\,000 + 2 \cdot 1000\,000 + 4 \cdot 100\,000 + 5 \cdot 10\,000 + 5 \cdot 1000 + 1 \cdot 1$$

- Rounding.

(a) Round 49982 to the nearest thousand. **50 000**

(b) Round 49982 to the nearest hundred. **50 000**

- The sides of a rectangle are 17 m and 71 m long.

(a) Find the perimeter of the rectangle.  **$P = 176$  m**

(b) Find the area of the rectangle.  **$A = 1207$  m<sup>2</sup>**

- Consider the following numbers: 2501, 37002, 12832, 60003, 252525

(a) Find all numbers from the list that are divisible by 2. **37 002, 12 832**

(b) Find all numbers from the list that are divisible by 3. **37 002, 60 003, 252 525**

(c) Find all numbers from the list that are divisible by 4. **12 832**

(d) Find all numbers from the list that are divisible by 5. **252 525**

(e) Find all numbers from the list that are divisible by 6. **37 002**

- List all the factors of 98. **1, 2, 7, 14, 49, 98**

- Find the least common multiple of 120 and 75. **600**

- Find the average of 4, 7, -2, 0 and 6. **3**

- Perform the following operations. Show all steps.

(a)  $2 + (-7) + (-5) + 8 = -2$

(b)  $(-4) + (-4) + 12 + (-4) = 0$

(c)  $1 + (-2) + 3 + (-4) + 5 + (-6) = -3$

(d)  $|-7| + |2| = 9$

(e)  $|-7 + 2| = 5$

- Let  $x = -1$ ,  $y = -3$ , and  $z = 6$ . Evaluate each of the following expressions.

(a)  $2z + y + x + (2z + y + x)^2 - 19 = 53$

(b)  $3z + x + (-2) - (y + 5)^2 - (x + 1)^2 = 11$

(c)  $|x| + |y| + |z| = 10$

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

(a)  $x - 7 = 2$     **9**

(b)  $x + 2 = 112$     **110**

(c)  $\frac{x}{13} = 4$     **52**

(d)  $5x = 20$     **4**