

WORKSHEET

Place Value

Unsolved with Answer key



WORKSHEET

Place Value

Part A: Identify the Place Value

Problem 1: What is the place value of the digit 7 in the number 5742?

Problem 2: Determine the place value of 3 in the number 4839.

Problem 3: What is the face value of the digit 9 in the number 9051?

Problem 4: Find the place value of 6 in the number 7621.

Problem 5: What is the place value of the digit 1 in the number 1324?

Problem 6: Identify the place value of 8 in the number 2845.

Problem 7: What is the place value of 5 in the number 5490?

Problem 8: Determine the place value of 2 in the number 2027.

Problem 9: What is the place value of the digit 4 in the number 4837?

Problem 10: Find the place value of 1 in the number 6715.

Part B: Convert Numbers and Decimals

Problem 1: Write the number 7524 in expanded form.

Problem 2: Convert the number 4106 to its words form.

Problem 3: Express the decimal number 3.418 in expanded form using place values.

Problem 4: Convert the binary number 1010 to its decimal equivalent.

Problem 5: What is the expanded form of 569?

Problem 6: Write the number 9302 in words.

Problem 7: Express the decimal 7.290 in expanded form using place values.

Problem 8: Convert the binary number 1101 to decimal form.

Problem 9: Write the decimal number 8.63 in expanded form.

Problem 10: Convert the number 2075 to its words form.

Part C: Calculate Place Value-Based Operations

Problem 1: If the digit 4 in the number 5274 is replaced by 9, what is the new number?

Problem 2: Increase the digit 3 in the number 4125 by 6 and write the new number.

Problem 3: What is the sum of the place values of all digits in the number 204?

Problem 4: In the number 6345, how many tens are there?

Problem 5: What is the difference between the place values of 5 and 2 in the number 5473?

Problem 6: Replace the digit 7 in 2897 with 2 and find the new number.

Problem 7: What is the sum of the place values of the digits 5 and 3 in 6354?

Problem 8: If the digit 8 in 1584 is decreased by 4, what is the new number?

Problem 9: Determine the new number if you increase the digit 1 in 4156 by 9.

Problem 10: Find the total place value of all digits in the number 3210.

Answer Key

Place Value

Part A: Identify the Place Value

1. Place value of 7 in 5742 is $7 \times 100 = 700$.
2. Place value of 3 in 4839 is $3 \times 10 = 30$.
3. Face value of 9 in 9051 is 9.
4. Place value of 6 in 7621 is $6 \times 100 = 600$.
5. Place value of 1 in 1324 is $1 \times 1 = 1$.
6. Place value of 8 in 2845 is $8 \times 100 = 800$.
7. Place value of 5 in 5490 is $5 \times 1000 = 5000$.
8. Place value of 2 in 2027 is $2 \times 1000 = 2000$.
9. Place value of 4 in 4837 is $4 \times 1000 = 4000$.
10. Place value of 1 in 6715 is $1 \times 1000 = 1000$.

Part B: Convert Numbers and Decimals

1. Expanded form of 7524: $7000 + 500 + 20 + 4$.
2. 4106 in words: Four thousand one hundred six.
3. Expanded form of 3.418: $(3 \times 1) + (4 \times 0.1) + (1 \times 0.01) + (8 \times 0.001) = 3 + 0.4 + 0.01 + 0.008$.
4. Binary 1010 in decimal is 10.
5. Expanded form of 569: $500 + 60 + 9$.
6. 9302 in words: Nine thousand three hundred two.
7. Expanded form of 7.290: $(7 \times 1) + (2 \times 0.1) + (9 \times 0.01) + (0 \times 0.001) = 7 + 0.2 + 0.09$.
8. Binary 1101 in decimal is 13.
9. Expanded form of 8.63: $(8 \times 1) + (6 \times 0.1) + (3 \times 0.01) = 8 + 0.6 + 0.03$.
10. 2075 in words: Two thousand seventy-five.

Part C: Calculate Place Value-Based Operations

1. New number: 5279.
2. New number: $4125 + 6 = 4131$.
3. Sum of place values in 204: $200 + 4 = 204$.
4. Number of tens in 6345: $6345 \div 10 = 634$.
5. Difference between place values of 5 and 2 in 5473: $(5 \times 1000) - (2 \times 100) = 5000 - 200 = 4800$.
6. New number: 2892.
7. Sum of place values of 5 and 3 in 6354: $(5 \times 1000) + (3 \times 100) = 5000 + 300 = 5300$.
8. New number: 1580.
9. New number: $4156 + 9 = 4165$.
10. Total place value of all digits in 3210: $3000 + 200 + 10 + 0 = 3210$.