

FIVE AND SIX DIGIT NUMBERS (KEY)

TEACHING TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. The smallest possible 5-digit number is **C) 10,000**.

Explanation:

- A 5-digit number starts from 10,000 and goes up to 99,999.
- Options A) 100 and B) 1,000 are not 5-digit numbers, and D) 100,000 is a 6-digit number.

2. The largest possible 5-digit number is **A) 99,999**.

Explanation:

- A 5-digit number ranges from 10,000 to 99,999, so 99,999 is the largest.
- Options B) 100,000 and C) 999,999 are 6-digit numbers, and D) 10,000 is the smallest 5-digit number.

3. In the number 37,482, the digit that represents the value of one thousand is **A) 3**.

Explanation:

- In the number 37,482:
 - The digit 3 is in the thousands place (3,000).
 - The digit 7 is in the hundreds place (700).
 - The digit 4 is in the tens place (40).
 - The digit 8 is in the ones place (8).

So, the correct answer is **A) 3**.

4. If the digit 0 is in the thousands place of a 5-digit number, its value is **A) 0**.

Explanation:

- In a 5-digit number, the thousands place represents 1,000. However, if the digit in that place is 0, it means there are no thousands in that number, contributing a value of 0.

So, the correct answer is A) 0.

5. In the expression $4 \times 10,000 + 5 \times 1,000 + 6 \times 100 + 7 \times 10 + 8 \times 1$, the term 7×10 represents B) 70.

Explanation:

The term 7×10 calculates to 70, indicating that it is the value of the digit 7 in the tens place.

So, the correct answer is B) 70.

6. In the number 45,678, the values of the digits in the thousands place and the ones place are as follows:

The digit in the thousands place (5) represents 5,000.

The digit in the ones place (8) represents 8.

Calculation: Now, we find the sum of these values: $5,000 + 8 = 5,008$

However, since the question asks for the sum of the digits themselves (not their values), we look at:

Thousands place: 5

Ones place: 8

So the sum of the digits in the thousands and ones places is: $5 + 8 = 13$.

ADVANCED LEVEL

More than One Answer Type

7. Let's analyze the number 73,482 and its digits:

- 7 is in the ten thousands place.
- 3 is in the thousands place.
- 4 is in the hundreds place.
- 8 is in the tens place.
- 2 is in the ones place.

Now, let's evaluate the statements: A) The digit 7 is in the ten thousands place. (Correct)

B) The digit 8 is in the thousands place. (Incorrect) - The digit 8 is in the tens place.

C) The digit 2 is in the tens place. (Incorrect) - The digit 2 is in the ones place.

D) The digit 3 is in the hundreds place. (Incorrect) - The digit 3 is in the thousands place.

Summary of Incorrect Statements:

- B) The digit 8 is in the thousands place.

- C) The digit 2 is in the tens place.

- D) The digit 3 is in the hundreds place.

So, the incorrect statements are B, C, and D.

8. Let's analyze the number 45,678 and its digits to identify the correct matching of values with their place values:

- 4 is in the ten thousands place.

- 5 is in the thousands place.

- 6 is in the hundreds place.

- 7 is in the tens place.

- 8 is in the ones place.

Now, let's evaluate the statements:

A) The digit 4 is in the ten thousands place. (Correct)

B) The digit 6 is in the ones place. (Incorrect) - The digit 6 is in the hundreds place.

C) The digit 7 is in the tens place. (Correct)

D) The digit 5 is in the hundreds place. (Incorrect) - The digit 5 is in the thousands place.

Summary:

- Correct matches: A and C.

- Incorrect matches: B and D.

Fill In the Blanks

9. In the number 24,356, the digit 2 is in the ****ten thousands**** place

and represents **2** groups of ten thousand.

10. In the expanded form of the number 45,678, the digit 4 represents **4** groups of ten thousand.

Matching Type

11. Here's the matching of the expressions with their corresponding place values in the expanded form of the number 45,678:

1. $4 \times 10,000$ ---- D) Ten Thousands Place

2. $5 \times 1,000$ ---- C) Thousands Place

3. 6×100 ---- E) Hundreds Place

4. 7×10 ---- A) Tens Place

5. 8×1 ---- B) Ones Place

Summary:

$4 \times 10,000$ corresponds to the Ten Thousands Place.

$5 \times 1,000$ corresponds to the Thousands Place.

6×100 corresponds to the Hundreds Place.

7×10 corresponds to the Tens Place.

8×1 corresponds to the Ones Place.

Answer the Following Questions

12. In the number 24,356, the digit 3 is in the hundreds place, representing 3 groups of one hundred. Thus, it represents 300 in total.

13. In the number 45,678, the digit 7 is in the tens place, representing a value of 70.

LEARNERS TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. A 5-digit number has **5** digits.

2. The 5-digit number among the options is **10,000**.

Explanation:

- A) 123,456 has 6 digits.

- B) 789 has 3 digits.
- C) 10,000 has 5 digits.
- D) 999,999 has 6 digits.

So, the correct answer is C) 10,000.

* 3. In the number 59,173, the digit 9 is in the Thousands place.

So, the correct answer is:

D) Thousands place.

4. In the number 82,649, the digit with the highest place value is A) 8.

Explanation:

- The digit 8 is in the ten thousands place, which is the highest place value in this number.
- The other digits (6, 4, and 2) are in lower place values (thousands, hundreds, and tens, respectively).

5. In the number 45,678, the digit 6 is in the hundreds place. Therefore, when written in expanded form, its value is:

C) 6×100 .

6. In the number 45,678, the digit 8 is in the **Ones** place.

So, the correct answer is:

B) Ones place.

ADVANCED LEVEL

More than One Answer Type

7. Let's evaluate each statement:

- A) The tens place represents groups of ten. (Correct)
- B) The ones place represents units or ones. (Correct)
- C) The thousands place represents groups of one thousand. (Correct)
- D) The ten thousands place represents groups of one hundred. (Incorrect) - The ten thousands place represents groups of ten thousand, not one hundred.

Summary:

The correct statements are:

- A) The tens place represents groups of ten.
- B) The ones place represents units or ones.
- C) The thousands place represents groups of one thousand.

8. The expression that correctly represents the expanded form of the number 45,678 is:

A) $4 \times 10,000 + 5 \times 1,000 + 6 \times 100 + 7 \times 10 + 8 \times 1$

Explanation: In the number 45,678:

4 is in the ten thousands place, representing $4 \times 10,000$.

5 is in the thousands place, representing $5 \times 1,000$.

6 is in the hundreds place, representing 6×100 .

7 is in the tens place, representing 7×10 .

8 is in the ones place, representing 8×1 .

Option A correctly represents the expanded form of 45,678.

Option C also sums up to 45,678 but is not in the expanded form format.

Options B and D are incorrect representations.

Fill In the Blanks

9. The digit 3 in the number 24,356 is in the ****hundreds**** place and represents 3 groups of one hundred.

10. The simplified form of the expression $40,000 + 5,000 + 600 + 70 + 8$ is: 45,678.

Matching Type

11. Here's the matching of the expressions with their corresponding descriptions:

1. Represents groups of one hundred. ---- C) Hundreds Place
2. Second digit from the right. ---- B) Tens Place
3. Represents groups of ten thousand. ---- E) Ten Thousands Place
4. Represents the units or ones. ---- A) Ones Place
5. Leftmost digit in a 5-digit number. ---- D) Thousands Place

Summary:

- 1 matches with C.
- 2 matches with B.
- 3 matches with E.
- 4 matches with A.
- 5 matches with D.

Answer the Following Questions

12. In the number 24,356, the digit 5 is in the *thousands* place.

Therefore, the place value of the digit 4 is *4,000*.

13. The expanded form of the number 45,678 is:

$40,000+5,000+600+70+8$

This breaks down the number into its place values: $4 \times 10,000=40,000$, $5 \times 1,000=5,000$, $6 \times 100=600$, $7 \times 10=70$, $8 \times 1=8$.

6-Digit Number (KEY)

TEACHING TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. In the number 456,789, the digit in the lakhs place is 4.

So, the correct answer is:

a) 4.

2. In the Hindu-Arabic place value system, 6 multiplied by 1,000 equals **6,000**.

So, the correct answer is:

c) 6,000.

3. The total value of the number 456,789 based on its place values is **b) 456,789**.

Explanation:

- The number itself represents its total value, which is 456,789.
- The other options represent different values or interpretations not applicable to this specific number.

4. The total value of the number 123,456 based on its place values is b) 123,456.

Explanation:

- The number itself represents its total value, which is 123,456.
- The other options represent different values and are not applicable to this specific number.

5. In the international place value system, 3 multiplied by 1,000 equals **3,000**.

So, the correct answer is: d) 3,000.

6. In the number 123,456, the digit that represents the value of 100,000 is a) 1.

Explanation:

- The digit 1 is in the hundred thousands place, which corresponds to the value of 100,000.

ADVANCED LEVEL

More than One Answer Type

7. Let's evaluate each statement regarding the place values in the number 123,456:

A) The digit 4 is in the thousands place, representing the value of 4 multiplied by 1,000. (Correct)

B) The digit 1 is in the hundred thousands place, representing the value of 1 multiplied by 100,000. (Correct)

C) The digit 5 is in the units place, representing the value of 5. (Incorrect) - The digit 5 is actually in the tens place, representing 5 multiplied by 10.

D) The digit 6 is in the ten thousands place, representing the value of 6 multiplied by 10,000. (Incorrect) - The digit 6 is actually in the units (ones) place.

Summary of Incorrect Statements:

- C) The digit 5 is in the units place.

- D) The digit 6 is in the ten thousands place.

So, the incorrect statements are C and D.

8. Let's evaluate each statement regarding the place values in the number 789,012:

A) The digit 2 is in the ten thousands place, representing the value of 2 multiplied by 10,000. *(Not true)* - The digit 2 is in the *units (ones)* place.

B) The digit 9 is in the hundred thousands place, representing the value of 9 multiplied by 100,000. *(Not True)* - The digit 9 is thousands place.

C) The digit 0 represents a value of hundreds. *(Not True)* - This is correct; the digit 0 indeed represents a value of hundreds.

D) The digit 1 is in the units place, representing the value of 1. *(Not true)* - The digit 1 is in the **thousands** place, not the units place.

Fill In the Blanks

9. In the Hindu-Arabic numeral system, the digit 5 in the number 456,789 is in the *thousands* place, representing the value of 5 multiplied by *1,000*.

10. In the international place value system, the digit 0 in the number 123,456 is in the *null* place, representing the value of 0 multiplied by *0*.

11. If the digit in the hundred thousands place is 2 instead of 1 in the number 123,456, the new number would be *223,456*.

Therefore, the total value of the number is: 223,456.

Matching Type

12. Here's the matching of the digits with their corresponding values:

1. Digit 9 --- *C. Represents the value of 9 in the Hindu-Arabic numeral system.*
2. Digit 8 ---- *F. Represents the value of 5 multiplied by 10,000.*
3. Digit 7 ---- *A. Represents the value of 7 multiplied by 100.*
4. Digit 6 ---- *B. Represents the value of 6 multiplied by 1,000.*
5. Digit 5 ---- *E. Represents the tens place in the Hindu-Arabic place value system.*
6. Digit 4 ---- *D. Represents the value of 4 multiplied by 100,000.*

Summary:

- 1 matches with C.
- 2 matches with F.
- 3 matches with A.
- 4 matches with B.
- 5 matches with E.
- 6 matches with D.

Answer the Following Questions

13. If the digit in the lakhs place of the number 456,789 is replaced with 0, the new number becomes *56,789*.

Therefore, the value of the number is: 56,789.

14. If the digit in the hundreds place of a 6-digit number is 7, it represents 700.

However, without knowing the other digits in the number, we can't determine the total value of the entire number. If you provide the complete number or additional digits, I can give you the total value based on the full number.

LEARNERS TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. In the number 325,678, the digit in the thousands place is c) 5.
2. In the number 456,789, the digit in the tens place is b) 8.
3. In the number 456,789, the value of 700 is represented in the c) Hundreds place.
4. In the number 123,456, the digit in the tens place is d) 5.
5. In the number 123,456, the digit in the thousands place is b) 3.
6. In the number 123,456, the value of 400 is represented in the c) Hundreds place.

ADVANCED LEVEL

More than One Answer Type

7. Let's evaluate each statement regarding the number 789,012:

A) The digit 0 represents a value of 0. (Not True).

B) The digit 2 is in the tens place, representing the value of 2 multiplied by 10. (Not true) - The digit 2 is in the ones (units) place, not the tens place.

C) The digit 9 is in the hundred thousands place, representing the value of 9 multiplied by 100,000. (Not True)

D) The total value of the number is 789,012. (True)

So, the only statement that is not true is A, B, C.

8. Let's evaluate each statement regarding the number 234,567:

A) The digit 7 is in the tens place, representing the value of 7 multiplied by 10. (Incorrect) - The digit 7 is in the ones (units) place, not the tens place.

B) The digit 4 is in the hundreds place, representing the value of 4 multiplied by 100. (In Correct) - This statement is not true.

C) The digit 2 is in the ten thousands place, representing the value of 2 multiplied by 10,000. (In Correct) - This statement is not true.

D) The digit 5 is in the units place, representing the value of 5. (Incorrect) - The digit 5 is actually in the thousands place, not the units place. So, the incorrect statements are A, B, C, D.

Fill In the Blanks

9. The total value of the number 456,789, when represented in the Hindu-Arabic place value system, is *4,56,789*.

10. In the international place value system, the digit 2 in the number 123,456 is in the * Ten thousands * place, representing the value of 2 multiplied by *10,000*.

Matching Type

11. Here's the matching of the places with their corresponding value calculations for the number 123,456:

1. Units place ---- D. Represents the value of 6.
2. Tens place ---- E. Represents the value of 50.
3. Hundreds place ---- A. Represents the value of 4 multiplied by 100.
4. Thousands place ---- F. Represents the value of 3 multiplied by 1,000.
5. Ten thousands place ---- B. Represents the value of 2 multiplied by 10,000.
6. Hundred thousands place ---- C. Represents the value of 1 multiplied by 100,000.

Summary:

- 1 matches with D.
- 2 matches with E.
- 3 matches with A.
- 4 matches with F.
- 5 matches with B.
- 6 matches with C.

Answer the Following Questions

12. In the number 325,678, the digit '7' is in the *Tens* place.

13. In the number 123,456, the digit in the tens place is *5*. If it is increased by 2, it becomes *7*.

The new number would be *123,476*.

Therefore, the new total value of the number is: 123,476.