SUBTRACTIONS (KEY)

SUBTRACTING 3 - DIGIT NUMBERS (KEY)

TEACHING TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

- 1. To solve (762 318):
- 1. Align the numbers vertically:

762

- 318

2. Subtract the units place: (2 - 8) requires borrowing since 2 is less than 8. Borrowing 1 from the tens place (making 6 into 5), the 2 becomes 12: - (12 - 8 = 4)

3. Move to the tens place: Now we have (5 - 1 = 4).

4. Finally, the hundreds place: (7 - 3 = 4).

Putting it all together, the result is: 444

So, the answer is A) 444.

2. To calculate (926 - 587):

1. Align the numbers vertically:

926

- 587

2. Subtract the units place: (6 - 7) requires borrowing since 6 is less than 7. Borrowing 1 from the tens place (making 2 into 1), the 6 becomes 16: - (16 - 7 = 9)

3. Move to the tens place: Now we have (1 - 8) which also requires borrowing. Borrowing 1 from the hundreds place (making 9 into 8), the 1 becomes 11: - (11 - 8 = 3)

4. Finally, the hundreds place: (8 - 5 = 3).

Putting it all together, the result is: 339

So, the answer is A) 339.

3. To find the difference between (843) and (279):

1. Align the numbers vertically:

843

- 279

2. Subtract the units place: (3 - 9) requires borrowing since 3 is less than 9. Borrowing 1 from the tens place (making 4 into 3), the 3 becomes 13: - (13 - 9 = 4)

3. Move to the tens place: Now we have (3 - 7), which also requires borrowing. Borrowing 1 from the hundreds place (making 8 into 7), the 3 becomes 13: - (13 - 7 = 6)

4. Finally, the hundreds place: (7 - 2 = 5).

Putting it all together, the result is: 564

So, the answer is B) 564.

4. To subtract (598) from (823):

1. Align the numbers vertically:

823

- 598

2. Subtract the units place: (3 - 8) requires borrowing since 3 is less than 8. Borrowing 1 from the tens place (making 2 into 1), the 3 becomes 13: - (13 - 8 = 5)

3. Move to the tens place: Now we have (1 - 9), which also requires borrowing. Borrowing 1 from the hundreds place (making 8 into 7), the 1 becomes 11: - (11 - 9 = 2)

4. Finally, the hundreds place: (7 - 5 = 2).

Putting it all together, the result is: 225

So, the answer is A) 225.

ADVANCED LEVEL

More than One Answer Type

5. - C) Result is always negative: This is true, as the outcome of the sub-traction will be a negative number.

- A) Borrowing occurs: This is also true if you're performing the subtraction in a multi-digit context where you would typically need to borrow. However, it's more about how the calculation is approached rather than changing the fact that the result is negative.

So the correct answers are A and C.

6. A) Starting with the ones place: This is where you often realize you need to borrow.

B) Moving to the tens place: This is usually where the borrowing happens, especially if you're subtracting from a digit that can't be subtracted directly.

C) Finally, moving to the hundreds place: This may also involve borrowing if you've had to borrow multiple times.

So, the best answer is B) Moving to the tens place, as this is where borrowing most commonly occurs. However, the overall process often starts at the ones place.

Fill In the Blanks

- 7. To calculate (923 458):
- 1. Align the numbers vertically:

923

- 458

2. Subtract the units place: (3 - 8) requires borrowing. Borrowing 1 from the tens place (making 2 into 1), the 3 becomes 13: - (13 - 8 = 5)

3. Move to the tens place: Now we have (1 - 5), which also requires borrowing. Borrowing 1 from the hundreds place (making 9 into 8), the 1 becomes 11: - (11 - 5 = 6)

4. Finally, the hundreds place: (8 - 4 = 4).

Putting it all together, the result is: 465 So, (923 - 458 = 465).

8. To calculate (734 - 298):

1. Align the numbers vertically:

734

- 298

2. Subtract the units place: (4 - 8) requires borrowing since 4 is less than 8. Borrowing 1 from the tens place (making 3 into 2), the 4 becomes 14: - (14 - 8 = 6)

3. Move to the tens place: Now we have (2 - 9), which also requires borrowing. Borrowing 1 from the hundreds place (making 7 into 6), the 2 becomes 12: - (12 - 9 = 3)

4. Finally, the hundreds place: (6 - 2 = 4).

Putting it all together, the result is: 436

So, (734 - 298 = 436).

Answer the Following Questions

9. To calculate (905 - 664):

1. Align the numbers vertically:

905

- 664

2. Subtract the units place: (5 - 4 = 1).

3. Move to the tens place: (0 - 6) requires borrowing since 0 is less than 6. Borrowing 1 from the hundreds place (making 9 into 8), the 0 becomes 10: - (10 - 6 = 4).

4. Finally, the hundreds place: (8 - 6 = 2).

Putting it all together, the result is: 241

So, (905 - 664 = 241).

10. To calculate (843 - 651):

1. Align the numbers vertically:

843

- 651

2. Subtract the units place: (3 - 1 = 2).

3. Move to the tens place: (4 - 5) requires borrowing since 4 is less than 5. Borrowing 1 from the hundreds place (making 8 into 7), the 4 becomes 14: - (14 - 5 = 9).

4. Finally, the hundreds place: (7 - 6 = 1).

Putting it all together, the result is: 192

So, (843 - 651 = 192).

11. To calculate (200 - 450):

Since (200) is less than (450), the result will be negative.

1. Set up the subtraction:

200

- 450

- -----
- 2. Since you cannot subtract (450) from (200), the result is:

200 - 450 = -250

So, (200 - 450 = -250).

12. To calculate (801 - 248):

1. Align the numbers vertically:

- 801
- 248

2. Subtract the units place: (1 - 8) requires borrowing since 1 is less than 8. Borrowing 1 from the tens place (making 0 into 9), the 1 becomes 11: - (11 - 8 = 3).

3. Move to the tens place: Now we have (9 - 4 = 5).

4. Finally, the hundreds place: (7 - 2 = 5).

Putting it all together, the result is: 553 So, (801 - 248 = 553).

LEARNERS TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. To calculate (856 - 379):

1. Align the numbers vertically:

856

- 379

2. Subtract the units place: (6 - 9) requires borrowing since 6 is less than 9. Borrowing 1 from the tens place (making 5 into 4), the 6 becomes 16: - (16 - 9 = 7).

3. Move to the tens place: Now we have (4 - 7), which requires borrowing. Borrowing 1 from the hundreds place (making 8 into 7), the 4 becomes 14: - (14 - 7 = 7).

4. Finally, the hundreds place: (7 - 3 = 4).

Putting it all together, the result is: 477

So, the answer is A) 477.

2. To calculate (821 - 539):

1. Align the numbers vertically:

821

- 539

2. Subtract the units place: (1 - 9) requires borrowing since 1 is less than 9. Borrowing 1 from the tens place (making 2 into 1), the 1 becomes 11: - (11 - 9 = 2).

3. Move to the tens place: Now we have (1 - 3) which requires borrowing again. Borrowing 1 from the hundreds place (making 8 into 7), the 1 becomes 11: - (11 - 3 = 8).

4. Finally, the hundreds place: (7 - 5 = 2).

Putting it all together, the result is: 282

So, the answer is D) 282.

3. To calculate (874 - 396):

1. Align the numbers vertically:

874

- 396

2. Subtract the units place: (4 - 6) requires borrowing since 4 is less than 6. Borrowing 1 from the tens place (making 7 into 6), the 4 becomes 14: - (14 - 6 = 8).

3. Move to the tens place: Now we have (6 - 9), which requires borrowing. Borrowing 1 from the hundreds place (making 8 into 7), the 6 becomes 16: - (16 - 9 = 7).

4. Finally, the hundreds place: (7 - 3 = 4).

Putting it all together, the result is: 478

So, the answer is B) 478.

4. To calculate (965 - 487):

1. Align the numbers vertically:

965

- 487

2. Subtract the units place: (5 - 7) requires borrowing since 5 is less than 7. Borrowing 1 from the tens place (making 6 into 5), the 5 becomes 15: - (15 - 7 = 8).

3. Move to the tens place: Now we have (5 - 8), which requires borrowing. Borrowing 1 from the hundreds place (making 9 into 8), the 5 becomes 15: - (15 - 8 = 7).

4. Finally, the hundreds place: (8 - 4 = 4).Putting it all together, the result is: 478So, the answer is C) 478.

ADVANCED LEVEL

More than One Answer Type

5. To calculate (785 - 428):

1. Align the numbers vertically:

785

- 428

2. Subtract the units place: (5 - 8) requires borrowing. Borrowing 1 from the tens place (making 8 into 7), the 5 becomes 15: - (15 - 8 = 7).

3. Move to the tens place: Now we have (7 - 2 = 5).

4. Finally, the hundreds place: (7 - 4 = 3).

Putting it all together, the result is: 357

So, the correct difference is (357).

The incorrect differences are B) 367 and C) 347.

6. C) When borrowing from higher place values is required: This occurs when a digit in the minuend is smaller than the corresponding digit in the subtrahend, necessitating borrowing from a higher place value. While options A and B can indicate situations where regrouping might be encountered, they are not correct as a general rule for regrouping itself. So the best answer is C) When borrowing from higher place values is required.

Fill In the Blanks

- 7. To calculate (572 311):
- 1. Align the numbers vertically:
 - 572
 - 311

- 2. Subtract the units place: (2 1 = 1).
- 3. Move to the tens place: (7 1 = 6).
- 4. Finally, the hundreds place: (5 3 = 2).

Putting it all together, the result is: 261

So, (572 - 311 = 261).

- 8. To calculate (846 587):
- 1. Align the numbers vertically:

846

- 587

2. Subtract the units place: (6 - 7) requires borrowing since 6 is less than 7. Borrowing 1 from the tens place (making 4 into 3), the 6 becomes 16: -(16 - 7 = 9).

3. Move to the tens place: Now we have (3 - 8), which requires borrowing again. Borrowing 1 from the hundreds place (making 8 into 7), the 3 becomes 13: - (13 - 8 = 5).

4. Finally, the hundreds place: (7 - 5 = 2).

Putting it all together, the result is: 259

So, (846 - 587 = 259).

Answer the Following Questions

9. To calculate (500 - 300):

1. Align the numbers vertically:

500

- 300

- 2. Subtract the units place: (0 0 = 0).
- 3. Subtract the tens place: (0 0 = 0).
- 4. Subtract the hundreds place: (5 3 = 2).

Putting it all together, the result is: 200

So, (500 - 300 = 200). 10. To calculate (320 - 110): 1. Align the numbers vertically: 320 - 110 _____ 2. Subtract the units place: (0 - 0 = 0). 3. Subtract the tens place: (2 - 1 = 1). 4. Subtract the hundreds place: (3 - 1 = 2). Putting it all together, the result is: 210 So, (320 - 110 = 210). 11. To calculate (498 - 401): 1. Align the numbers vertically: 498 - 401 -----2. Subtract the units place: (8 - 1 = 7).

3. Subtract the tens place: (9 - 0 = 9).

4. Subtract the hundreds place: (4 - 4 = 0).

Putting it all together, the result is: 097

So, (498 - 401 = 97).

- 12. To calculate (721 550):
- 1. Align the numbers vertically:

721

- 550

- 2. Subtract the units place: (1 0 = 1).
- 3. Subtract the tens place: (2 5) requires borrowing since 2 is less

than 5. Borrowing 1 from the hundreds place (making 7 into 6), the 2 becomes 12: - (12 - 5 = 7).

4. Subtract the hundreds place: (6 - 5 = 1).

Putting it all together, the result is: 171

So, (721 - 550 = 171).

SUBTRACTING 4-DIGIT NUMBERS (KEY)

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TEACHING TASK

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CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. To calculate (9,824 - 5,693):

1. Align the numbers vertically:

9824

- 5693

2. Subtract the units place: (4 - 3 = 1).

3. Subtract the tens place: (2 - 9) requires borrowing since 2 is less than 9. Borrowing 1 from the hundreds place (making 8 into 7), the 2 becomes 12: - (12 - 9 = 3).

4. Subtract the hundreds place: (7 - 6 = 1).

5. Subtract the thousands place: (9 - 5 = 4).

Putting it all together, the result is: 4131 So, (9,824 - 5,693 = 4,131).

The answer is A) 4,131.

- 2. To calculate (8,549 2,367):
- 1. Align the numbers vertically:

8549

- 2367

2. Subtract the units place: (9 - 7 = 2).

3. Subtract the tens place: (4 - 6) requires borrowing since 4 is less than 6. Borrowing 1 from the hundreds place (making 5 into 4), the 4 becomes 14: - (14 - 6 = 8).

4. Subtract the hundreds place: (4 - 3 = 1).

5. Subtract the thousands place: (8 - 2 = 6).

Putting it all together, the result is: 6182

So, (8,549 - 2,367 = 6,182).

The answer is A) 6,182.

3. To calculate (7,928 - 4,382):

1. Align the numbers vertically:

7928

- 4382

2. Subtract the units place: (8 - 2 = 6).

3. Subtract the tens place: (2 - 8) requires borrowing since 2 is less than 8. Borrowing 1 from the hundreds place (making 9 into 8), the 2 becomes 12: - (12 - 8 = 4).

4. Subtract the hundreds place: (8 - 3 = 5).

5. Subtract the thousands place: (7 - 4 = 3).

Putting it all together, the result is: 3546

So, (7,928 - 4,382 = 3,546).

The answer is B) 3,546.

- 4. To calculate (9,831 6,752):
- 1. Align the numbers vertically:

9831

- 6752

2. Subtract the units place: (1 - 2) requires borrowing. Borrowing 1 from the tens place (making 3 into 2), the 1 becomes 11: - (11 - 2 = 9).

3. Subtract the tens place: Now we have (2 - 5) which requires borrowing again. Borrowing 1 from the hundreds place (making 8 into 7), the 2 becomes 12: - (12 - 5 = 7).

4. Subtract the hundreds place: (7 - 7 = 0).

5. Subtract the thousands place: (9 - 6 = 3).

Putting it all together, the result is: 3079

So, (9,831 - 6,752 = 3,079).

The answer is C) 3,079.

ADVANCED LEVEL

More than One Answer Type

5. Regrouping is required in subtraction:

C) When borrowing from higher place values is necessary**: This occurs when the digit in the minuend is smaller than the corresponding digit in the subtrahend for a specific place value (like tens or hundreds), requiring you to borrow from a higher place value.

While A and B may indicate situations where regrouping could happen, option C is the most accurate and directly related to the need for regrouping in the subtraction process.

So, the best answer is C) When borrowing from higher place values is necessary. The Correct Answers is A,B,C.

6. In subtraction with regrouping, when you borrow from a higher place value, the place value that becomes 10 is typically the tens place. For example, if you borrow 1 from the hundreds place to help with the tens place, the tens digit increases by 10 (turning a 0 into 10, or a smaller digit into 10 plus that digit).

So, the correct answer is A) Tens place.

Fill In the Blanks

7. To find the missing number in the equation (_____- 4,328 = 6,912), you can rearrange the equation to solve for the missing number: Missing number = 6,912 + 4,328

Now, let's calculate that: 6,912 + 4,328 = 11,240So, the missing number is 11,240. 8. To find the missing number in the equation (5,783 - _____ = 3,492), rearrange it to solve for the missing number: = 5,783 - 3,492

Now, let's calculate that: 5,783 - 3,492 = 2,291

So, the missing number is 2,291.

Answer the Following Questions

- 9. To calculate (9,247 8,712):
- 1. Align the numbers vertically:

9247

- 8712

- 2. Subtract the units place: (7 2 = 5).
- 3. Subtract the tens place: (4 1 = 3).

4. Subtract the hundreds place: (2 - 7) requires borrowing. Borrowing 1 from the thousands place (making 9 into 8), the 2 becomes 12:

- (12 - 7 = 5).

5. Subtract the thousands place: (8 - 8 = 0).

Putting it all together, the result is: 535

So, (9,247 - 8,712 = 535).

- 10. To calculate (8,593 6,752):
- 1. Align the numbers vertically:

8593

- 6752

- 2. Subtract the units place: (3 2 = 1).
- 3. Subtract the tens place: (9 5 = 4).

4. Subtract the hundreds place: (5 - 7) requires borrowing. Borrowing 1 from the thousands place (making 8 into 7), the 5 becomes 15:

- (15 - 7 = 8).

5. Subtract the thousands place: (7 - 6 = 1).

Putting it all together, the result is: 1841 So, (8,593 - 6,752 = 1,841).

- 11. To calculate (6,999 5,458):
- 1. Align the numbers vertically:
 - 6999
 - 5458

- 2. Subtract the units place: (9 8 = 1).
- 3. Subtract the tens place: (9 5 = 4).
- 4. Subtract the hundreds place: (9 4 = 5).
- 5. Subtract the thousands place: (6 5 = 1).

Putting it all together, the result is: 1541

So, (6,999 - 5,458 = 1,541).

12. To calculate (7,508 - 5,303):

1. Align the numbers** vertically:

7508

- 5303

- 2. Subtract the units place: (8 3 = 5).
- 3. Subtract the tens place: (0 0 = 0).
- 4. Subtract the hundreds place: (5 3 = 2).
- 5. Subtract the thousands place: (7 5 = 2).
- Putting it all together, the result is: 2205

So, (7,508 - 5,303 = 2,205).

LEARNERS TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

- 1. To calculate (9,845 3,279):
- 1. Align the numbers vertically:
 - 9845
 - 3279

2. Subtract the units place: (5 - 9) requires borrowing. Borrowing 1 from the tens place (making 4 into 3), the 5 becomes 15:

- (15 - 9 = 6).

3. Subtract the tens place: Now we have (3 - 7) which requires borrowing. Borrowing 1 from the hundreds place (making 8 into 7), the 3 becomes 13: - (13 - 7 = 6).

4. Subtract the hundreds place: (7 - 2 = 5).

5. Subtract the thousands place: (9 - 3 = 6).

Putting it all together, the result is: 6566

So, (9,845 - 3,279 = 6,566).

The answer is C) 6,566.

2. To calculate (8,912 - 4,387):

1. Align the numbers vertically:

8912

- 4387

2. Subtract the units place: (2 - 7) requires borrowing. Borrowing 1 from the tens place (making 1 into 0), the 2 becomes 12: - (12 - 7 = 5).

3. Subtract the tens place: Now we have (0 - 8) which requires borrowing. Borrowing 1 from the hundreds place (making 9 into 8), the 0 becomes 10: - (10 - 8 = 2).

4. Subtract the hundreds place: (8 - 3 = 5).

5. Subtract the thousands place: (8 - 4 = 4).

Putting it all together, the result is: 4525

So, (8,912 - 4,387 = 4,525). The answer is A) 4,525.

3. To calculate (7,648 - 2,537):

- 1. Align the numbers vertically:
 - 7648

- 2537

- 2. Subtract the units place: (8 7 = 1).
- 3. Subtract the tens place: (4 3 = 1).
- 4. Subtract the hundreds place: (6 5 = 1).
- 5. Subtract the thousands place: (7 2 = 5).

Putting it all together, the result is: 5111

So, (7,648 - 2,537 = 5,111).

The answer is B) 5,111.

- 4. To calculate (9,874 3,598):
- 1. Align the numbers vertically:

9874

- 3598

2. Subtract the units place: (4 - 8) requires borrowing. Borrowing 1 from the tens place (making 7 into 6), the 4 becomes 14: - (14 - 8 = 6).

3. Subtract the tens place**: Now we have (6 - 9), which requires borrowing. Borrowing 1 from the hundreds place (making 8 into 7), the 6 becomes 16: - (16 - 9 = 7).

4. Subtract the hundreds place: (7 - 5 = 2).

5. Subtract the thousands place: (9 - 3 = 6).

Putting it all together, the result is: 6276

So, (9,874 - 3,598 = 6,276).

The answer is A) 6,276.

ADVANCED LEVEL

More than One Answer Type

5.

A) Starting from the rightmost place value (Ones): You begin subtracting from the units place.

B) Moving towards the left: After subtracting the units place, you move to the tens, then hundreds, and finally thousands.

C) Borrowing from higher place values when necessary: If the digit in the minuend is smaller than the corresponding digit in the subtrahend, you borrow from the next higher place value.

So, the correct answers are A, B, and C.

D) Subtracting without regrouping is not always true since regrouping (or borrowing) is sometimes necessary, depending on the numbers involved.

- 6. To calculate (9,768 5,239):
- 1. Align the numbers vertically:

9768

- 5239

2. Subtract the units place: (8 - 9) requires borrowing. Borrowing 1 from the tens place (making 6 into 5), the 8 becomes 18: - (18 - 9 = 9).

3. Subtract the tens place: Now we have (5 - 3 = 2).

- 4. Subtract the hundreds place: (7 2 = 5).
- 5. Subtract the thousands place: (9 5 = 4).

Putting it all together, the result is: 4,529

The correct result is 4,529, so the incorrect options are:

- B) 4,539, - C) 4,439, - D) 4,449

If you need just one incorrect option, you can choose B) 4,539 as an example.

Fill In the Blanks

7. To find the missing number in the equation ($8,927 - _ = 4,389$), you can rearrange it to solve for the missing number:

_____ = 8,927 - 4,389

Now, let's calculate that: 8,927 - 4,389 = 4,538

So, the missing number is 4,538.

8. To find the missing number in the equation (_____ - 3,498 = 5,643), you can rearrange it to solve for the missing number:

_____ = 5,643 + 3,498

Now, let's calculate that: 5,643 + 3,498 = 9,141

So, the missing number is 9,141.

Answer the Following Questions

- 9. To calculate (4,561 3,210):
- 1. Align the numbers vertically:

4561

- 3210

- 2. Subtract the units place: (1 0 = 1).
- 3. Subtract the tens place: (6 1 = 5).
- 4. Subtract the hundreds place: (5 2 = 3).
- 5. Subtract the thousands place: (4 3 = 1).

Putting it all together, the result is: 1351

So, (4,561 - 3,210 = 1,351).

- 10. To calculate (5,478 1,263):
- 1. Align the numbers vertically:

5478

- 1263

- 2. Subtract the units place: (8 3 = 5).
- 3. Subtract the tens place: (7 6 = 1).
- 4. Subtract the hundreds place: (4 2 = 2).
- 5. Subtract the thousands place: (5 1 = 4).

Putting it all together, the result is: 4215

So, (5,478 - 1,263 = 4,215).

- 11. To calculate (8,294 5,288):
- 1. Align the numbers vertically:

8294

- 5288

2. Subtract the units place: (4 - 8) requires borrowing. Borrowing 1 from the tens place (making 9 into 8), the 4 becomes 14: - (14 - 8 = 6).

- 3. Subtract the tens place: Now we have (8 8 = 0).
- 4. Subtract the hundreds place: (2 2 = 0).
- 5. Subtract the thousands place: (8 5 = 3).

Putting it all together, the result is: 3006

So, (8,294 - 5,288 = 3,006).

12. To calculate (9,637 - 8,742):

1. Align the numbers vertically:

9637

- 8742

2. Subtract the units place: (7 - 2 = 5).

3. Subtract the tens place: (3 - 4) requires borrowing. Borrowing 1 from the hundreds place (making 6 into 5), the 3 becomes 13:

-(13 - 4 = 9).

4. Subtract the hundreds place: (5 - 7) requires borrowing again. Borrowing 1 from the thousands place (making 9 into 8), the 5 becomes 15: - (15 - 7 = 8).

5. Subtract the thousands place: (8 - 8 = 0). Putting it all together, the result is: 895 So, (9,637 - 8,742 = 895).