TEACHING TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

 To divide 9876 by 9: Perform the division: 9876÷9=1097 remainder 3 So, the answer is:
 b) 1,097 with a remainder of 3.

- 2. To divide 7654 by 7:
- 1. Perform the division: 7654÷7=1093(whole number part)
- 2. Calculate the remainder: 7654-(1093×7)=7654-7651=3

So, the full result of the division is:

Quotient: 1093

Remainder: 3

Since none of the options match this result, let's check each option against the calculated quotient and remainder:

- a) 1,093.4286 (not correct)
- b) 1,093 with a remainder of 5 (not correct)
- c) 1,093 (only the whole part, not accounting for the remainder)
- d) 1,093 with a remainder of 4 (not correct)

It seems there was a misunderstanding about the correct remainder. The correct answer should have been expressed as:

1093 with a remainder of 3.

If we only consider the quotient without the remainder, then c) 1,093 would be the most relevant option. However, to accurately reflect the complete result, we found a remainder of 3.

- 3. To divide 8765 by 2:
- 1. Perform the division: 8765÷2=4382(whole number part)
- 2. Calculate the remainder: 8765-(4382×2)=8765-8764=1

So, the result of the division is:

Quotient: 4382

Remainder: 1

Thus, the correct answer is:

b) 4,382 with a remainder of 1.

4. To divide 5678 by 7:
1. Perform the division: 5678÷7=811(whole number part)
2. Calculate the remainder: 5678-(811×7)=5678-5677=1
So, the result of the division is:
Quotient: 811
Remainder: 1
Thus, the correct answer is: b) 811 with a remainder of 1.

ADVANCED LEVEL

More than One Answer Type

5. To divide 7890 by 7:
1. Perform the division: 7890÷7=1127(whole number part)
2. Calculate the remainder: 7890-(1127×7)=7890-7889=1
So, the result of the division is:
Quotient: 1127
Remainder: 1
Thus, the correct answer is: b) 1,127 with a remainder of 1.

6. To divide 6543 by 3:

1. Perform the division: 6543÷3=2181(whole number part)

2. Calculate the remainder: 6543-(2181×3)=6543-6543=0

So, the result of the division is:

Quotient: 2181

Remainder: 0

Thus, the correct answer is: a) 2,181 with a remainder of 0.

Fill In the Blanks

7. To divide 8765 by 6:
1. Perform the division: 8765÷6=1460(whole number part)
2. Calculate the remainder: 8765-(1460×6)=8765-8760=5
So, the result of the division is:
Quotient: 1460
Remainder: 5
Thus, we can write: 8765÷6=1460 with a remainder of 5.

- 8. To divide 9871 by 3:
- 1. Perform the division: 9871÷3=3290(whole number part)
- 2. Calculate the remainder: 9871-(3290×3)=9871-9870=1

So, we can write: $9871 \div 3=3290$ with a remainder of 1.

Matching Type

9.

- 1. 8765 C. divided by 7 equals 934 with a remainder of 5.
- 2. 6543 B. divided by 7 equals 1,252 with a remainder of 1.
- 3. 7890 D. divided by 7 equals 1,127 with a remainder of 1.
- 4. 9876 A. divided by 7 equals 1,410 with a remainder of 6.

Answer the Following Questions

- 10. To divide 6360 by 6:
- 1. Perform the division: 6360÷6=1060(whole number part)
- 2. Calculate the remainder: 6360-(1060×6)=6360-6360=0
- So, the result of the division is: $6360 \div 6=1060$ with a remainder of 0.
- 11. To divide 7385 by 9:
- 1. Perform the division: 7385÷9=820(whole number part)
- 2. Calculate the remainder: 7385-(820×9)=7385-7380=5
- So, the result of the division is: $7385 \div 9=820$ with a remainder of 5.

LEARNERS TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

- 1. To divide 5432 by 2:
- 1. Perform the division: 5432÷2=2716(whole number part)
- 2. Calculate the remainder: 5432-(2716×2)=5432-5432=0

So, the result of the division is: $5432 \div 2=2716$ with a remainder of 0.

- Thus, the correct answer is: c) 2,716 with a remainder of 0.
- 2. To divide 8765 by 3:
- 1. Perform the division: 8765÷3=2921(whole number part)
- 2. Calculate the remainder: 8765-(2921×3)=8765-8763=2
- So, the result of the division is: $8765 \div 3=2921$ with a remainder of 2.

Thus, the correct answer is: b) 2,921 with a remainder of 2.

3. To divide 6954 by 4:

1. Perform the division: 6954÷4=1738(whole number part)

2. Calculate the remainder: 6954-(1738×4)=6954-6952=2

So, the result of the division is: $6954 \div 4=1738$ with a remainder of 2. Thus, the correct answer is: a) 1,738 with a remainder of 2.

4. To divide 9871 by 5:

1. Perform the division: 9871÷5=1974(whole number part)

2. Calculate the remainder: 9871-(1974×5)=9871-9870=1

So, the result of the division is: $9871 \div 5=1974$ with a remainder of 1. Thus, the correct answer is: b) 1,974 with a remainder of 1.

ADVANCED LEVEL

More than One Answer Type

5. To divide 9876 by 2:

1. Perform the division: 9876÷2=4938(whole number part)

2. Calculate the remainder: 9876-(4938×2)=9876-9876=0

So, the result of the division is: $9876 \div 2=4938$ with a remainder of 0. Thus, the correct answers are: a) 4,938 with a remainder of 0, b) 4,938 Options c) and d) are incorrect.

6. To divide 7890 by 4:

1. Perform the division: 7890÷4=1972(whole number part)

2. Calculate the remainder: 7890-(1972×4)=7890-7888=2

So, the result of the division is: $7890 \div 4=1972$ with a remainder of 2. Thus, the correct answers are: b) 1,972 with a remainder of 2, c) 1,972 Option a) is incorrect, and option d) is also incorrect.

Fill In the Blanks

7. To divide 6543 by 3:

1. Perform the division: 6543÷3=2181(whole number part)

2. Calculate the remainder: 6543-(2181×3)=6543-6543=0

So, we can write: $6543 \div 3=2181$ with a remainder of 0.

- 8. To divide 7890 by 5:
- 1. Perform the division: 7890÷5=1578(whole number part)
- 2. Calculate the remainder: 7890-(1578×5)=7890-7890=0

So, we can write: $7890 \div 5=1578$ with a remainder of 0.

Matching Type

9. The matching for the 4-digit dividends with their corresponding quotients and remainders when divided by 5:

1. 8432 - D. divided by 5 equals 1,686 with a remainder of 2.

- 2. 9871 C. divided by 5 equals 1,974 with a remainder of 1.
- 3. 7890 A. divided by 5 equals 1,578 with a remainder of 0.
- 4. 5678 B. divided by 5 equals 1,135 with a remainder of 3.

Answer the Following Questions

10. To divide 8727 by 3:

1. Perform the division: 8727÷3=2909(whole number part)

2. Calculate the remainder: 8727-(2909×3)=8727-8727=0

So, the result of the division is: $8727 \div 3=2909$ with a remainder of 0.

- 11. To divide 6842 by 4:
- 1. Perform the division: 6842÷4=1710(whole number part)
- 2. Calculate the remainder: 6842-(1710×4)=6842-6840=2

So, the result of the division is: $6842 \div 4=1710$ with a remainder of 2.

Division by a 2- Digit Divisor (KEY)

TEACHING TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

- 1. To divide 9543 by 48:
- 1. Perform the division: 9543÷48=198(whole number part)
- 2. Calculate the remainder: 9543-(198×48)=9543-9504=39

So, the result of the division is:

 $9543 \div 48 = 198$ with a remainder of 39.

Thus, the correct answer is: a) 198 with a remainder of 39.

2. To divide 7890 by 31, we can perform the division:

1. Calculate 7890÷31.

2. The quotient is approximately 254 since 31×254=7874. To find the remainder, subtract 7874 from 7890: 7890-7874=16

So, 7890÷31=254 with a remainder of 16. The correct answer is: a) 254 with a remainder of 16.

3. To divide 5678 by 43: Calculate 5678÷43.
The quotient is approximately 132 since 43×132=5676.
To find the remainder, subtract 5676 from 5678: 5678-5676=2
So, 5678÷43=132 with a remainder of 2.
The correct answer is: d) 132 with a remainder of 2.

4. To divide 8432 by 56: Calculate 8432÷56. The quotient is approximately 150 since 56×150=8400. To find the remainder, subtract 8400 from 8432: 8432-8400=32 So, 8432÷56=150 with a remainder of 32. The correct answer is: a) 150 with a remainder of 32.

ADVANCED LEVEL

More than One Answer Type

5. To divide 8432 by 54:

Calculate 8432÷54.

The quotient is approximately 156 since 54×156=8424.

To find the remainder, subtract 8424 from 8432: 8432-8424=8

Now, let's check the other options to see if they work:

Option a) Quotient: 156, Remainder: 28, 54×156+28=8424+28=8452 (not correct)

Option b) Quotient: 155, Remainder: 42, 54×155+42=8370+42=8412 (not correct)

Option c) Quotient: 157, Remainder: 6, 54×157+6=8478+6=8484 (not correct)

Option d) Quotient: 154, Remainder: 18, 54×154+18=8292+18=8310 (not correct)

Based on the calculation: The only valid division for 8432÷54 is Quotient: 156, Remainder: 8. None of the options provided match this result, but the valid option based on the calculation for 8432÷54 is 156 with a remainder of 8.

6. To divide 9543 by 49: Calculate 9543÷49. The quotient is approximately 194 since 49×194=9516. To find the remainder, subtract 9516 from 9543: 9543-9516=27

Fill In the Blanks

7. To divide 8765 by 45: Calculate 8765÷45.
The quotient is approximately 195 since 45×195=8775.
To find the correct quotient, calculate 45×195=8775, which is too high. Now check 45×194: 45×194=8730
To find the remainder, subtract 8730 from 8765: 8765-8730=35
So, 8765÷45=194 with a remainder of 35.
The answer is: 8765÷45=194 with a remainder of 35.

8. To divide 9876 by 56: Calculate 9876÷56.
The quotient is approximately 176 since 56×176=9856.
To find the remainder, subtract 9856 from 9876: 9876-9856=20
So, 9876÷56=176 with a remainder of 20.
The answer is: 9876÷56=176 with a remainder of 20.

Matching Type

9. Let's calculate the quotients and remainders for each of the dividends when divided by 56: 1.8432: Quotient: 8432÷56=150 Remainder: 8432-(56×150)=8432-8400=32 Matches with C: divided by 56 equals 150 with a remainder of 32. 2.9871: Quotient: 9871÷56=176 Remainder: 9871-(56×176)=9871-9856=15 Matches with D: divided by 56 equals 176 with a remainder of 15. 3. 7890: Quotient: 7890÷56=140 Remainder: 7890-(56×140)=7890-7840=50 This does not match any of the given options. 4. 5678: Quotient: 5678÷56=101 Remainder: 5678-(56×101)=5678-5656=22

Matches with B: divided by 56 equals 101 with a remainder of 22.

Answer the Following Questions

10. To divide 6275 by 25: Calculate 6275÷25.
The quotient is 251 since 25×251=6275.
The remainder is 0 because 6275 is exactly divisible by 25.
So, 6275÷25=251 with a remainder of 0.
The answer is: 6275÷25=251 with a remainder of 0.

11. To divide 5568 by 19: Calculate 5568÷19.
The quotient is approximately 293 since 19×293=5587 (which is too high), so let's check 19×292=5548
Now, to find the remainder, subtract 5548 from 5568: 5568-5548=20
So, 5568÷19=292 with a remainder of 20.
The answer is: 5568÷19=292 with a remainder of 20.

LEARNERS TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

 To divide 9871 by 68: Calculate 9871÷68.
 The quotient is approximately 145 since 68×145=9860.
 To find the remainder, subtract 9860 from 9871: 9871-9860=11
 So, 9871÷68=145 with a remainder of 11.
 The correct answer is: a) 145 with a remainder of 11.

2. To divide 9876 by 35: Calculate 9876÷35.
The quotient is approximately 282 since 35×282=9870.
To find the remainder, subtract 9870 from 9876: 9876-9870=6
So, 9876÷35=282 with a remainder of 6.
The correct answer is: c) 282 with a remainder of 6.

3. To divide 7654 by 42: Calculate 7654÷42. The quotient is approximately 182 since $42 \times 182 = 7644$. To find the remainder, subtract 7644 from 7654: 7654-7644=10 So, 7654÷42=182 with a remainder of 10. The correct answer is: d) 182 with a remainder of 10.

4. To divide 6543 by 29: Calculate 6543÷29.
The quotient is approximately 225 since 29×225=6525.
To find the remainder, subtract 6525 from 6543: 6543-6525=18
So, 6543÷29=225 with a remainder of 18.
The correct answer is: a) 225 with a remainder of 18.

ADVANCED LEVEL

More than One Answer Type

5. To divide 7123 by 46: Calculate 7123÷46.
The quotient is approximately 154 since 46×154=7084.
To find the remainder, subtract 7084 from 7123: 7123-7084=39
The correct answer is: a) Quotient: 154, Remainder: 39

6. To divide 6789 by 37: Calculate 6789÷37.
The quotient is approximately 183 since 37×183=6771.
To find the remainder, subtract 6771 from 6789: 6789-6771=18
The correct answer is: a) Quotient: 183, Remainder: 18

Fill In the Blanks

7. To divide 7654 by 23: Calculate 7654÷23. The quotient is approximately 332 since 23×332=7656 (which is too high), so let's check 23×331=7613 Now, to find the remainder, subtract7613 from 7654:7654-7613=41 So, 7654÷23=331 with a remainder of 41. The answer is: 7654÷23=331 with a remainder of 41.

8. To divide 6543 by 33: Calculate 6543÷33.
The quotient is approximately 198 since 33×198=6534.
Now, to find the remainder, subtract 6534 from 6543:6543-6534=9 So, 6543÷33=198 with a remainder of 9. The answer is: 6543÷33=198 with a remainder of 9.

Matching Type

9.
1. 7654 = D: 7,654 divided by 34 equals 225 with a remainder of 14.
2. 8765 = A: 8,765 divided by 34 equals 258 with a remainder of 13.
3. 9876 = B: 9,876 divided by 34 equals 290 with a remainder of 16.
4. 6543 = C: 6,543 divided by 34 equals 192 with a remainder of 15.

Answer the Following Questions

10. To divide 5468 by 15: Calculate 5468÷15.
The quotient is approximately 364 since 15×364=5460.
To find the remainder, subtract 5460 from 5468: 5468-5460=8
So, 5468÷15=364 with a remainder of 8.
The answer is: 5468÷15=364 with a remainder of 8.

11. To divide 8264 by 40: Calculate 8264÷40.
The quotient is 206 since 40×206=8240.
To find the remainder, subtract 8240 from 8264: 8264-8240=24
So, 8264÷40=206 with a remainder of 24.
The answer: 8264÷40=206 with a remainder of 24.

PROPERTIES OF DIVISION (KEY)

TEACHING TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. The result of dividing a 4-digit number (or any number) by 1 is:

A) The number itself.

Dividing any number by 1 yields the same number.

2. In the context of division, the correct statement regarding the distributive property is: A) The result of division is the same as the sum of separate divisions. This reflects the way division can be distributed across addition or subtraction when breaking down a problem, similar to how multiplication distributes over addition. However, it's important to note that division itself does not have a distributive property like multiplication does; this option captures the essence of how division relates to sums when considered in that context.

3. The correct answer is: B) Commutative Property.

However, it's important to note that division is not commutative, meaning that changing the order of the numbers does change the result (e.g., a÷b is not the same as b÷a).

If you meant to ask which property relates to the operation of division in a way that emphasizes the need for a specific order, the answer should clarify that division does not have a property that allows the order to be changed without affecting the result.

4. The correct answer is: A) Associative Property.

However, it's important to clarify that the associative property does not apply to division. In arithmetic, while addition and multiplication are associative (meaning the grouping of numbers does not affect the result), division is not associative.

For example, $(a \div b) \div c$ is not the same as $a \div (b \div c)$.

So, while "grouping" is often associated with the associative property, it doesn't hold true for division itself.

ADVANCED LEVEL

More than One Answer Type

5. The properties that indicate division is not flexible enough to distribute over addition are: A) Associative Property, C) Distributive Property C) Distributive Property: This property explicitly shows that division does not distribute over addition, meaning $a \div (b+c)$ is not equal to $(a \div b) + (a \div c)$. A) Associative Property: While division does not have the associative property, recognizing that operations like addition and multiplication are associative helps illustrate the limitations of division. Since division is not associative (i.e., $(a \div b) \div c$ is not the same as $a \div (b \div c)$), this reinforces the idea that division behaves differently from addition and multiplication.

So, the correct answers are A and C.

6. A) Associative Property: Not applicable. Division is not associative, meaning that the grouping of numbers affects the result.

B) Commutative Property: Not applicable. Division is not commutative, meaning that changing the order of the numbers changes the result.C) Distributive Property: Not applicable. Division does not distribute over addition or subtraction.

D) Identity Property: Applicable. The identity property states that any number divided by 1 remains the same (e.g., $a \div 1=a$).

Given that context, the only applicable property from the options is: D) Identity Property.

Thus, there are no multiple correct answers related to properties that apply to division. The only correct answer is D.

Fill In the Blanks

7. When you divide any number by itself (as long as it is not zero), the result is always 1.

So, 5643÷5643=1.

8. To make the equation $7359 \div$ __=0 true, you would need to divide by a number that approaches infinity. However, in standard arithmetic, any finite number divided by zero is undefined.

Thus, the only way to express $7359 \div$ _=0 is by saying you divide by a very large number (theoretically approaching infinity) or simply stating that division by zero is not defined.

In conclusion, the answer is:

7359÷(a very large number)[~]0 (but not defined for 0).

Matching Type

9. Here are the correct matches for each property of division with its definition:

1. Associative Property C. Grouping of numbers doesn't affect the result.

(Note: This is actually not true for division, but the associative property refers to grouping. Division is not associative.)

2. Commutative Property A. Order of numbers doesn't affect the result.

(Note: This is also not true for division; division is not commutative.)

3. Distributive Property D. Division distributes over addition.

(Note: This is not true for division; division does not distribute over addition.)

4. Identity Property B. Division by 1 results in the original number.

So, the accurate matches would be:

- 1. Associative Property --- C
- 2. Commutative Property --- A
- 3. Distributive Property --- D
- 4. Identity Property --- B

Answer the Following Questions

10. To divide 9274 by 82: Calculate 9274÷82.
The quotient is approximately 113 since 82×113=9276 (which is too high), so let's check 82×112=9184.
Now, to find the remainder, subtract 9184 from 9274-9184=90
So, 9274÷82=112 with a remainder of 90.
The answer is: 9274÷82=112 with a remainder of 90.

11. To divide 3206 by 63: Calculate 3206÷63.
The quotient is approximately 50 since 63×50=3150.
To find the remainder, subtract 3150 from 3206: 3206-3150=56
So, 3206÷63=50 with a remainder of 56.
The answer is: 3206÷63=50 with a remainder of 56.

LEARNERS TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. The property of division that states that for any three numbers a,b, andc, the equation $(a \div b) \div c = a \div (b \div c)$ is:

A) Associative Property.

However, it's important to note that division is not associative; changing the grouping does affect the result. This is different from addition and multiplication, which are associative. 2. The property that states for any two numbers a and b, a+b=b+a, is:B) Commutative Property.

However, it's important to clarify that the commutative property does not hold for division. In other words, a+b is generally not equal to b+a.

So, while the property described is labeled as commutative, division itself is not commutative.

3. When you divide a 4-digit number (or any number) by 0, the result is: D) It's undefined.

Division by zero is not defined in mathematics, as it does not produce a meaningful result.

4. The property of division that states for any number a÷1=a is:D) Identity Property.

This property indicates that dividing any number by 1 results in the original number.

ADVANCED LEVEL

More than One Answer Type

5. The properties that guarantee that the division operation involving 4digit numbers is unaffected by the way the numbers are grouped are:

1. A) Associative Property: Division is not associative; changing the grouping does affect the result.

2. B) Commutative Property: Division is not commutative; changing the order of the numbers changes the result.

3. C) Distributive Property: Division does not distribute over addition or subtraction.

4. D) Identity Property: While this property states that dividing by 1 leaves the number unchanged, it does not address grouping.

6. The property that pertains to the order of numbers in operations is:B) Commutative Property.

However, it's important to note that division is not commutative. This means that changing the order of the numbers does change the **result** (for example, $a \div b = b \div a$).

So, while option B refers to the commutative property, division does not

actually satisfy this property. Thus, there are no properties that demonstrate that division involving 4-digit numbers is commutative, as it is not.

Fill In the Blanks

7. To make the equation 2421÷_=2421 true, you would divide by 1.
So, 2421÷1=2421.
This means the blank should be filled with 1.

8. To make the equation __÷7429=0 true, the number in the blank must be 0.
So, 0÷7429=0.
Thus, the answer is 0.

Matching Type

9. Here are the correct matches for each division operation:
1. 28 ÷ 2 B. 14 (since 28÷2=14)
2. 87 ÷ 0 D. Undefined (division by zero is undefined)
3. 99 ÷ 3 A. 33 (since 99÷3=33)
4. 54 ÷ 1 C. 54 (since 54÷1=54)

Answer the Following Questions

10. To divide 8820 by 100: 8820÷100=88.20 So, 8820÷100=88.2.

11. To divide 1264 by 12: Calculate 1264÷12. The quotient is 105 since 12×105=1260. To find the remainder, subtract 1260 from 1264: 1264-1260=4 So, 1264÷12=105 with a remainder of 4.