

To find the answer to a units multiplication problem, multiply two numbers and take the units digit of the product. For example, $5 \times 3 = 15$. 5 is the units digit of 15. Therefore, the units multiplication answer to 5×3 is 5.

Task 1A

Determine if the set of numbers 1, 5, and 9 is closed under units multiplication. Show your work by filling in the table below. Explain how you used the table to determine if this set is closed.

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Task 1B

It is not necessary to fill in the whole table in Task 1A. Why not? What is the only part or parts of the table you need to fill in to determine if the set of 1, 5, and 9 is closed under units multiplication?

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Task 1C

Determine if the set of numbers 1, 3, 7 and 9 is closed under units multiplication. Explain how you determined your answer.

Task 2A

The set of numbers 1, 3, and 5 are not closed under units multiplication. What number or numbers do you need to add to this set to create a set of numbers that is closed under units multiplication? Show how you determined your answer.

Task 2B

Find a set of numbers that is closed under units multiplication. Show how you determined your set is closed.

Task 2C

Can you find another set of numbers that is closed under units multiplication. Show how you found it.

Task 3A

List at least 2 things you have learned about mathematics by doing this activity.

Task 3B

List any questions you have