

Connecting Multiplication and Division

- 1 Find the three numbers that are common to both lists.

_____, _____, and _____

A: 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72

B: 21 28 35 42 49 56 63 70 77 84 91 98

I multiplied my secret number by several other numbers and got 21, 42, and 63. My secret number is greater than 1 and less than 10. There is more than one possibility. What could my secret number be?

My secret number could be _____ or _____.

- 2 Find the number that is common to all lists. _____

A: 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44

B: 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

C: 16 24 32 40 48 56 64 72 80 88 96

I multiplied my secret number by another number and got 40. My secret number is greater than 1 and less than 10. There is more than one possibility. What could my number be?

My secret number could be _____ or _____ or _____.

- 3 I multiplied several numbers by my secret number and got 24, 36, 54. If my secret number is greater than 1, what is my secret number? There is more than one possibility.
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- 4 I multiplied several numbers by my secret number and got 36, 48, and 60. How many possibilities can you find for my secret number? What are they?
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