

Worksheet

07/30/2020

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Problem quickname: 8903

1)Quick:
8903

Is that statement true? Specify the appropriate divisibility rule.

- a) 1399 is divisible by 25. False, because the number 99 formed by the last two digits is not divisible by 25 and it is not a zero.
- b) 49200 is divisible by 20. True, because the penultimate digit 0 is even and the last digit is a zero.
- c) 38 is divisible by five. False, because the last digit 8 is neither a zero nor a five.
- d) 6579 is divisible by 20. False. The last digit is not a zero. The penultimate digit 7 is ungerade.
- e) 73800 is divisible by 50. True, because the number 0 formed by the last two digits is a zero or 50.
- f) 141 is divisible by five. False, because the last digit 1 is neither a zero nor a five.
- g) 625 is divisible by nine. False, because the digit sum 13 is not divisible by nine.
- h) 6017 is divisible by three. False, because the digit sum 14 is not divisible by three.
- i) 1605 is divisible by three. True, because the digit sum 12 is divisible by three.
- j) 1651 is divisible by nine. False, because the digit sum 13 is not divisible by nine.

2)Quick:
8903

Is that statement true? Specify the appropriate divisibility rule.

- a) 1197 is divisible by four. False, for the number 97 formed by the last two digits is not divisible by four, nor is it a zero.
- b) 1835 is divisible by four. False, for the number 35 formed by the last two digits is not divisible by four, nor is it a zero.
- c) 8523 is divisible by eight. False, because the number 523 formed by the last three digits is not divisible by eight, nor is it a zero.
- d) 148 is divisible by two. True, because the last digit 8 is even.
- e) 633 is divisible by 25. False, because the number 33 formed by the last two digits is not divisible by 25 and it is not a zero.

- f) 634 is divisible by four. False, for the number 34 formed by the last two digits is not divisible by four, nor is it a zero.
- g) 140 is divisible by two. True, because the last digit of the number is a zero.
- h) 183 is divisible by two. False, because the last digit 3 is odd.
- i) 17371 is divisible by eight. False, because the number 371 formed by the last three digits is not divisible by eight, nor is it a zero.
- j) 103 is divisible by two. False, because the last digit 3 is odd.

3)

Quick:
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Why is this statement true? Specify the appropriate divisibility rule.

- a) 8186 is not divisible by 40. Reason: The last digit is not a zero. The number 18 formed by the penultimate and third-last digit is not divisible by four.
- b) 5 is divisible by five. Reason: The last digit 5 is a zero or a five.
- c) 90821 is not divisible by ten. Reason: The last digit of the number is not a zero.
- d) 81161 is not divisible by 20. Reason: It is true that the penultimate digit 6 is even, but the last digit is not a zero.
- e) 636 is not divisible by 25. Reason: The number 36 formed by the last two digits is not divisible by 25 and it is not a zero.
- f) 65 is divisible by five. Reason: The last digit 5 is a zero or a five.
- g) 6111 is divisible by nine. Reason: The digit sum 9 is divisible by nine.
- h) 94411 is not divisible by ten. Reason: The last digit of the number is not a zero.
- i) 75920 is divisible by 20. Reason: The penultimate digit 2 is even and the last digit is a zero.
- j) 1419 is not divisible by 25. Reason: The number 19 formed by the last two digits is not divisible by 25 and it is not a zero.

4)

Quick:
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Is that statement true? Specify the appropriate divisibility rule.

- a) 98400 is divisible by 40. True, because the number 40 formed by the penultimate and third-last digit is divisible by four and the last digit is a zero.
- b) 49092 is divisible by 50. False, because the number 92 formed by the last two digits is neither a zero nor 50.
- c) 6773 is divisible by nine. False, because the digit sum 23 is not divisible by nine.
- d) 90578 is divisible by 40. False. The last digit is not a zero. The number 57 formed by the penultimate and third-last digit is not divisible by four.

- e) 93425 is divisible by 50. False, because the number 25 formed by the last two digits is neither a zero nor 50.
- f) 61 is divisible by five. False, because the last digit 1 is neither a zero nor a five.
- g) 10900 is divisible by 40. False. While the last digit is a zero, the number 90 formed by the penultimate and third-last digit is not divisible by four.
- h) 6272 is divisible by three. False, because the digit sum 17 is not divisible by three.
- i) 26195 is divisible by 20. False. The last digit is not a zero. The penultimate digit 9 is ungrade.
- j) 42876 is divisible by 20. False. The last digit is not a zero. The penultimate digit 7 is ungrade.

Good Luck!