

Worksheet

07/30/2020

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Problem quickname: 8903

1)Quick:
8903

Is that statement true? Specify the appropriate divisibility rule.

- a) 11209 is divisible by eight. False, because the number 209 formed by the last three digits is not divisible by eight, nor is it a zero.
- b) 67220 is divisible by 40. False. While the last digit is a zero, the number 22 formed by the penultimate and third-last digit is not divisible by four.
- c) 91 is divisible by five. False, because the last digit 1 is neither a zero nor a five.
- d) 1905 is divisible by four. False, for the number 5 formed by the last two digits is not divisible by four, nor is it a zero.
- e) 1769 is divisible by 25. False, because the number 69 formed by the last two digits is not divisible by 25 and it is not a zero.
- f) 76491 is divisible by 20. False. The last digit is not a zero. The penultimate digit 9 is ungrade.
- g) 28937 is divisible by 40. False. The last digit is not a zero. The number 93 formed by the penultimate and third-last digit is not divisible by four.
- h) 157 is divisible by two. False, because the last digit 7 is odd.
- i) 5 is divisible by two. False, because the last digit 5 is odd.
- j) 144 is divisible by five. False, because the last digit 4 is neither a zero nor a five.

2)Quick:
8903

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

- a) 79 is not divisible by five. Reason: The last digit 9 is neither a zero nor a five.
- b) 946 is not divisible by nine. Reason: The digit sum 19 is not divisible by nine.
- c) 37969 is not divisible by 20. Reason: It is true that the penultimate digit 6 is even, but the last digit is not a zero.
- d) 70998 is not divisible by 100. Reason: The last two digits of the number are not 00.
- e) 6017 is not divisible by three. Reason: The digit sum 14 is not divisible by three.
- f) 120 is divisible by five. Reason: The last digit 0 is a zero or a five.

- g) 8586 is divisible by nine. Reason: The digit sum 27 is divisible by nine.
- h) 91521 is not divisible by 40. Reason: While it is true that the number 52 formed by the penultimate and third-last digit is divisible by four, the last digit is not a zero.
- i) 12332 is not divisible by 125. Reason: The number 332 formed by the last three digits is not divisible by 125, nor is it a zero.
- j) 67040 is divisible by 40. Reason: The number 4 formed by the penultimate and third-last digit is divisible by four and the last digit is a zero.

3)

Is that statement true? Specify the appropriate divisibility rule.

Quick:
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- a) 126 is divisible by two. True, because the last digit 6 is even.
- b) 254 is divisible by 25. False, because the number 54 formed by the last two digits is not divisible by 25 and it is not a zero.
- c) 64884 is divisible by 50. False, because the number 84 formed by the last two digits is neither a zero nor 50.
- d) 3155 is divisible by nine. False, because the digit sum 14 is not divisible by nine.
- e) 4882 is divisible by nine. False, because the digit sum 22 is not divisible by nine.
- f) 88 is divisible by five. False, because the last digit 8 is neither a zero nor a five.
- g) 141 is divisible by five. False, because the last digit 1 is neither a zero nor a five.
- h) 37613 is divisible by 50. False, because the number 13 formed by the last two digits is neither a zero nor 50.
- i) 18440 is divisible by 50. False, because the number 40 formed by the last two digits is neither a zero nor 50.
- j) 5595 is divisible by nine. False, because the digit sum 24 is not divisible by nine.

4)

Is that statement true? Specify the appropriate divisibility rule.

Quick:
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- a) 160 is divisible by two. True, because the last digit of the number is a zero.
- b) 723 is divisible by four. False, for the number 23 formed by the last two digits is not divisible by four, nor is it a zero.
- c) 808 is divisible by four. True, because the number 8 formed by the last two digits is divisible by four.
- d) 49 is divisible by 25. False, because the number 49 formed by the last two digits is not divisible by 25 and it is not a zero.

- e) 88121 is divisible by 40. False. While it is true that the number 12 formed by the penultimate and third-last digit is divisible by four, the last digit is not a zero.
- f) 6612 is divisible by eight. False, because the number 612 formed by the last three digits is not divisible by eight, nor is it a zero.
- g) 947 is divisible by 25. False, because the number 47 formed by the last two digits is not divisible by 25 and it is not a zero.
- h) 164 is divisible by two. True, because the last digit 4 is even.
- i) 20600 is divisible by 20. True, because the penultimate digit 0 is even and the last digit is a zero.
- j) 12633 is divisible by eight. False, because the number 633 formed by the last three digits is not divisible by eight, nor is it a zero.

Good Luck!