

Brief Constructed Response

Burt saw this set of numbers on the chalkboard.

Whole numbers greater than 9 and less than 50

Part A How many numbers in this set are divisible by 9?

Part B

Use what you know about divisibility to explain why your answer is correct. Use words and/or numbers in your explanation.

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Part A How many numbers in this set are divisible by 9?

$$\div 9 \quad [9 \times 2 = 18; \quad 9 \times 3 = 27; \quad 9 \times 4 = 36; \quad 9 \times 5 = 45]$$

$\begin{array}{c} \vee \\ 1+8=9 \end{array} \quad \begin{array}{c} \vee \\ 2+7=9 \end{array} \quad \begin{array}{c} \vee \\ 3+6=9 \end{array} \quad \begin{array}{c} \vee \\ 4+5=9 \end{array}$

18, 27, 36, 45

Part B

Use what you know about divisibility to explain why your answer is correct. Use words and/or numbers in your explanation.

I know that the number must be a
multiple of 9. I know 18, 27, 36,
and 45 are 9 facts. I know
that they are divisible because
when I add the digits they
are equal to 9. $4+8=12$. $2+7=9$
 $3+6=9 \quad 4+5=9$