answer the questions

Of the 7,534 blacklegged ticks that were found:

- 1 in 6 ticks carried the bacteria that causes Lyme disease
- 1 in 115 ticks carried the bacteria that causes anaplasmosis
- 1 in 204 ticks carried the bacteria that causes Borrelia miyamotoi disease
- 1 in 5,000 ticks carried the parasite that causes babesiosis

Of the $\mathbf{7 1 8}$ western blacklegged ticks that were found:

- 1 in 705 ticks carried the bacteria that causes Borrelia miyamotoi disease
- No tick carried the bacteria that causes Lyme disease
* Source:Tick surveillance in Canada: Ixodes scapularis and Ixodes pacificus ticks and their associated pathogens in Canada, 2020


## ANSWER THE QUESTIONS BELOW.

1 How many ticks (blacklegged and western blacklegged) were found in total?

## CALCULATION

ANSWER
2 What was the percentage of blacklegged ticks?

## CALCULATION

ANSWER
3 What was the percentage of western
blacklegged ticks?

CALCULATION
ANSWER

## Bonus questions!

(4)

What was the number of blacklegged ticks that carried Lyme disease (round up)?

CALCULATION
ANSWER
5 Come up with a mathemaTICKS question. Write down your calculation and your answer. QUESTION $\qquad$
$\qquad$
$\qquad$


CALCULATION
ANSWER


Credit: Catherine Hogan and Muhammad Morshed, Parasitology Laboratory, BCCDC Public Health Laboratory

## WESTERN

 BLACKLEGGEDTICK

BLACKLEGGEDTICK

Use the 2020 tick surveillance data below to answer the questions

Of the 7,534 blacklegged ticks that were found:

- 1 in 6 ticks carried the bacteria that causes Lyme disease
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- 1 in 204 ticks carried the bacteria that causes Borrelia miyamotoi disease
- 1 in 5,000 ticks carried the parasite that causes babesiosis

Of the $\mathbf{7 1 8}$ western blacklegged ticks that were found:

- 1 in 705 ticks carried the bacteria that causes Borrelia miyamotoi disease
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* Source:Tick surveillance in Canada: Ixodes scapularis and Ixodes pacificus ticks and their associated pathogens in Canada, 2020


## QUESTIONS

1 How many ticks (blacklegged and western blacklegged) were found in total?

| $\mathbf{7 , 5 3 4 + 7} \mathbf{7 1 8}$ | $\mathbf{8 , 2 5 2}$ |
| :--- | :--- |
| CALCULATION | ANSWER |

2) What was the percentage of blacklegged ticks?

| $7,534 \div(7,534+718) \times 100$ |  |
| :--- | :--- |
| CALCULATION |  |

3 What was the percentage of western
blacklegged ticks?

$$
718 \div(7,534+718) \times 100
$$

|  | $8.7 \%$ |
| :--- | :--- |
|  | 8 |

## Bonus questions!

4
What was the number of blacklegged ticks that carried Lyme disease (round up)?

| $\mathbf{1} \div 6) \times \mathbf{7 , 5 3 4}=\mathbf{1 , 2 5 6}$ |  |
| :--- | :--- |
| CALCULATION | $\frac{\mathbf{1 , 2 5 6}}{\text { ANSWER }}$ |

5 Come up with a mathemaTICKS question. Write down your calculation and your answer. QUESTION $\qquad$
$\qquad$
$\qquad$


ANSWER


Credit: Catherine Hogan and Muhammad Morshed, Parasitology Laboratory, BCCDC Public Health Laboratory

## WESTERN

 LACKLEGGEDTICK

BLACKLEGGEDTICK

