



Chilli Challenges - 19/1/21

Answer at least one challenge question.

Self-assess your learning with the answers.

No Peeking!

Green Chilli

True or False?

$$7 \times 6 = 7 \times 3 \times 2$$

$$7 \times 6 = 7 \times 7 + 8$$

Explain your answer to a friend. Prove using a drawing.

Yellow Chilli

Choose the right path for the bird to get to its nest using only multiples of 7.



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Red Chilli

Complete the number sentences using the numbers on the roof of each house. One sentence in each set has been done for you.

The image shows three houses, each with a different colored roof and body. The first house is brown, the second is green, and the third is blue. Each house has a roof with two numbers and a body with four math problems. The first house has a roof with 6 and 7, and a body with four problems: $\square \times \square = \square$, $7 \times 6 = 42$, $\square \div \square = \square$, and $\square \div \square = \square$. The second house has a roof with 7 and 9, and a body with four problems: $\square \times \square = \square$, $\square \times \square = \square$, $63 \div 7 = 9$, and $\square \div \square = \square$. The third house has a roof with 3 and 7, and a body with four problems: $\square \times \square = \square$, $\square \times \square = \square$, $\square \div \square = \square$, and $21 \div 3 = 7$.

Answers

True.

False, because $7 \times 6 = 42$ whereas $7 \times 7 = 49$ then $49 + 8 = 57$

Children could draw a bar model or bundles of straws.

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Choose the right path for the bird to get to its nest using only multiples of 7.

14, 42, 63, 35, 77, 49, 56

Complete the number sentences using the numbers on the roof of each house. One sentence in each set has been done for you.

$6 \times 7 = 42$

$7 \times 9 = 63$

$3 \times 7 = 21$

$7 \times 6 = 42$

$9 \times 7 = 63$

$7 \times 3 = 21$

$42 \div 7 = 6$

$63 \div 7 = 9$

$21 \div 7 = 3$

$42 \div 6 = 7$

$63 \div 9 = 7$

$21 \div 3 = 7$