Year 6 - Spring Block 3 - Algebra

Step 6: Forming Equations



Introduction

If the formula for finding the perimeter of a rectangle is p = 2l + 2w, calculate the perimeter of the following rectangles.



length (<i>l</i>)	width (w)	perimeter (p)
15cm	8cm	
22cm	19cm	
12.5cm	10cm	
14.25cm	9.5cm	



Introduction

If the formula for finding the perimeter of a rectangle is p = 2l + 2w, calculate the perimeter of the following rectangles.



length (<i>l</i>)	width (w)	perimeter (p)
15cm	8cm	46cm
22cm	19cm	82cm
12.5cm	10cm	45cm
14.25cm	9.5cm	47.5cm



Use the equation below to fill in the gaps in the information.

$n \div 2 = 4.5$

I think of a number. I divide it by ____ and my answer is



Use the equation below to fill in the gaps in the information.

$n \div 2 = 4.5$

I think of a number. I divide it by 2 and my answer is 4.5.



Circle the equation that matches the information below.

Mandi thinks of a number. She multiplies it by 4 and then subtracts 0.5. Her answer is 2.5.

A.
$$0.5n - 4 = 2.5$$

B. $4n - 0.5 = 2.5$
C. $4n + 0.5 = 2.5$
D. $n - 0.5 = 2.5$



Circle the equation that matches the information below.

Mandi thinks of a number. She multiplies it by 4 and then subtracts 0.5. Her answer is 2.5.





I think of a number. I divide it by 4. My answer is 20.

The equation below is incorrect. It does not match this information. Circle the error.



I think of a number. I divide it by 4. My answer is 20.

The equation below is incorrect. It does not match this information. Circle the error.



The correct equation is $n \div 4 = 20$.



Complete the equation below to match the information.

Tana has some build blocks. She finds 17 more. She has 28 blocks altogether.



Complete the equation below to match the information.

Tana has some build blocks. She finds 17 more. She has 28 blocks altogether.



Problem Solving 1

Use some of the cards to create an algebraic equation.

Write a word problem to match the equation created.



Problem Solving 1

Use some of the cards to create an algebraic equation.

Write a word problem to match the equation created.

Various answers, for example: $n \div 7 = 2.5$.

Sierra has some cupcakes. She shares them with her 6 friends. They each get 2 and a half cupcakes.





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Reasoning 2

Dan and Sangeet are creating word problems based on the equation below.

4n + 6 = 30



I think of a number. I multiply it by 4 and then add 6. My answer is 30.



Who is correct? Explain your answer.

Dan



Reasoning 2

Dan and Sangeet are creating word problems based on the equation below.

4n + 6 = 30



I think of a number. I multiply it by 4 and then add 6. My answer is 30. Sangeet

Who is correct? Explain your answer. Sangeet is correct because...

Dan



Reasoning 2

Dan and Sangeet are creating word problems based on the equation below.

4n + 6 = 30



I think of a number. I multiply it by 4 and then add 6. My answer is 30. Sangeet

Who is correct? Explain your answer. Sangeet is correct because 4n is the same as $4 \ge n$. Dan's equation would be 6n + 4 = 30.

Dan

