

Name _____

Draw to Solve Division Problems

I Can draw a diagram to help me solve a division problem.

Florida's B.E.S.T.

- Number Sense & Operations 5.NSO.2.2
- Mathematical Thinking & Reasoning MTR.2.1, MTR.3.1, MTR.7.1



UNLOCK the Problem Real World

Jairus and his family chartered a fishing boat for the day. Jairus caught a blue marlin and an amberjack. The weight of the blue marlin was 12 times as great as the weight of the amberjack. The combined weight of both fish was 273 pounds. How much did each fish weigh?



Read the Problem

What do I need to find?

I need to find _____.

What information do I need to use?

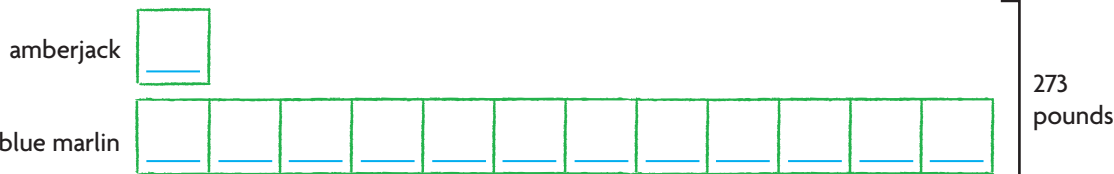
I need to know that Jairus caught a total of _____ pounds of fish and the weight of the blue marlin was _____ times as great as the weight of the amberjack.

How will I use the information?

I can use the strategy _____ and then divide. I can draw and use a bar model to write the division problem that helps me find the weight of each fish.

Solve the Problem

I will draw one box to show the weight of the amberjack. Then I will draw a bar of 12 boxes of the same size to show the weight of the blue marlin. I can divide the total weight of the two fish by the total number of boxes.



Write the quotient in each box. Multiply it by 12 to find the weight of the blue marlin.

$$\begin{array}{r}
 2 \\
 13 \overline{)273} \\
 \underline{-26} \\
 13 \\
 \underline{-13} \\
 0
 \end{array}$$

So, the amberjack weighed _____ pounds, and the blue marlin weighed _____ pounds.

Try This! Rashaun, Mito, and Dana went fishing. Dana caught a red snapper. Rashaun caught a tuna with a weight 3 times as great as the weight of the red snapper. Mito caught a sailfish with a weight 12 times as great as the weight of the red snapper. If the combined weight of the three fish was 208 pounds, how much did the tuna weigh?



Read the Problem

What do I need to find?

What information do I need to use?

How will I use the information?

Solve the Problem

So, the tuna weighed _____ pounds.

- How can you check if your answer is correct? _____



MTR 2.1 Demonstrate understanding in multiple ways.

Explain how you could use another strategy to solve this problem.