DUE ___ _____

HW #5 NAME Key

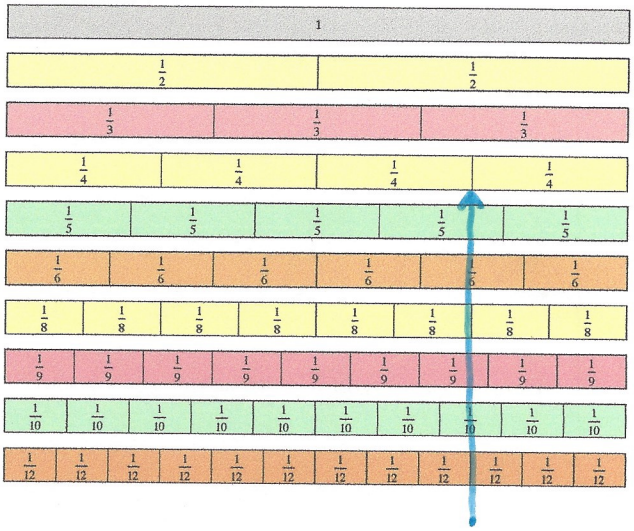
FEEDBACK FROM TEACHER:

☐ SHOW WORK PLEASE ☐ NEATER PLEASE ☐ WRITE TIME SPENT ☐ PLEASE CORRECT

LEVEL 3 _____ *(√, √+, or √++)*

TIME SPENT: _____

Student feedback: (optional) _____

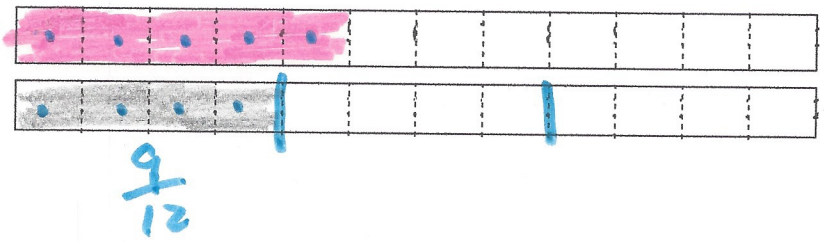


LEVEL ONE – Making Meaning

Solve visually:

1. Using the two long rectangles below, color in $\frac{5}{12}$ of the first rectangle and $\frac{1}{3}$ of the second.

What is the sum of the two? Count the 12ths to find out.

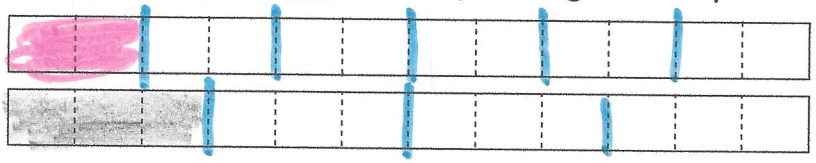


$\frac{9}{12}$

When you count up the 12ths, is there a simpler fraction that represents the same amount? Look at the Fraction Template to figure this out.

Answer: $\frac{3}{4}$

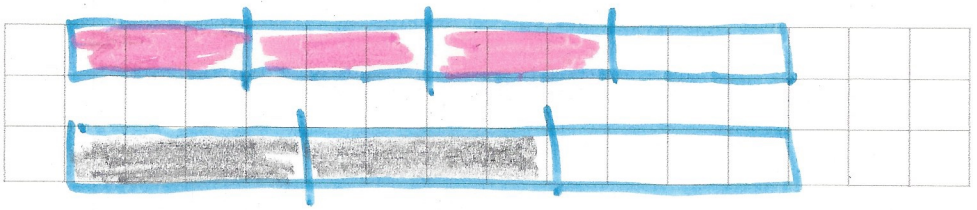
2. Now add **1/6** plus **1/4**, either by coloring in the strips below, or by imagining them in your head.



Answer: $\frac{5}{12}$

LEVEL TWO

3. Now add **3/4** plus **2/3**. Draw your own 12-strips in the grid below. What is the sum? *(just count up the shaded 12ths)*

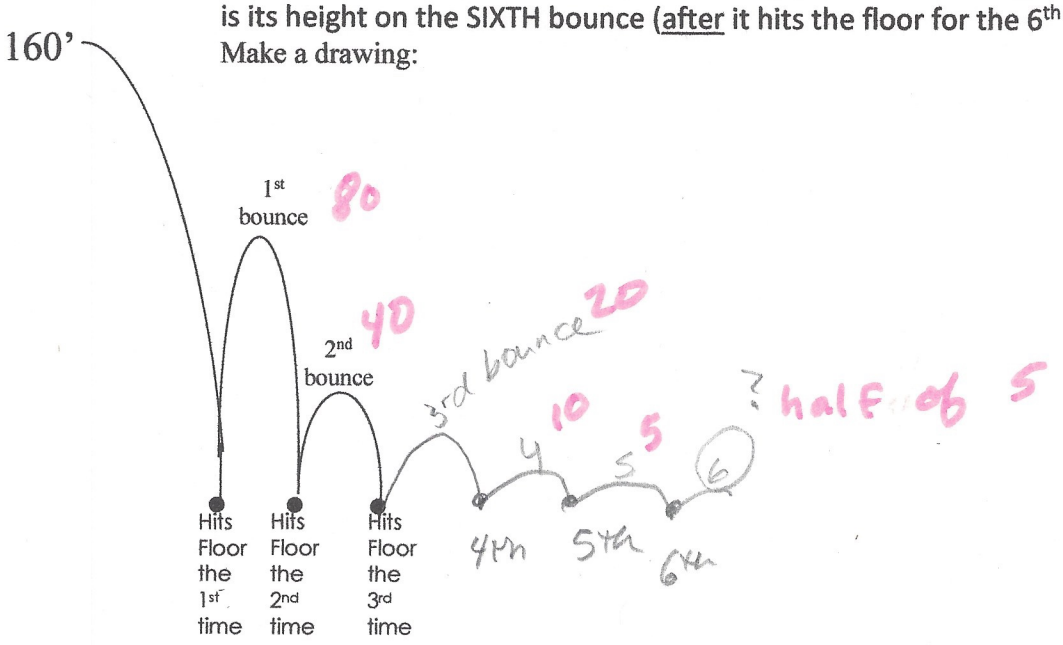


Answer:

Why is the answer given in 12ths, not 24ths? The whole bar = 12ths.
It is a "12-peak" Toblerone

4. A basketball bounces back up ONE HALF of the height from which it is dropped. If it is dropped from 160 feet and keeps bouncing (each time coming back ½ of the last bounce), what is its height on the SIXTH bounce (after it hits the floor for the 6th time)?

Make a drawing:

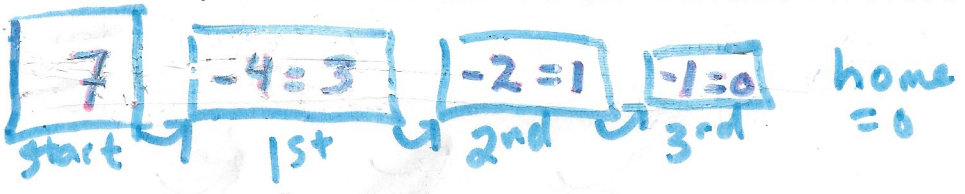


$2\frac{1}{2}$ feet

or 2' 6"

LEVEL THREE – Challenge - *show your scratch work:*

5. Josh, the soccer man, has soccer balls for sale. He travels to the first soccer field and sells half of the soccer balls plus a half of a ball. Then he travels to the next soccer field and sells half of the remaining balls and half of a ball. He travels to a third soccer field and sells half of the remaining soccer balls and a half of a ball. Finally, he returns home with no soccer balls left. Josh accomplishes all of this without cutting any of the balls in half. How many soccer balls did Josh start with? *Hint... Start with an ODD number of soccer balls.*



Answer: 7