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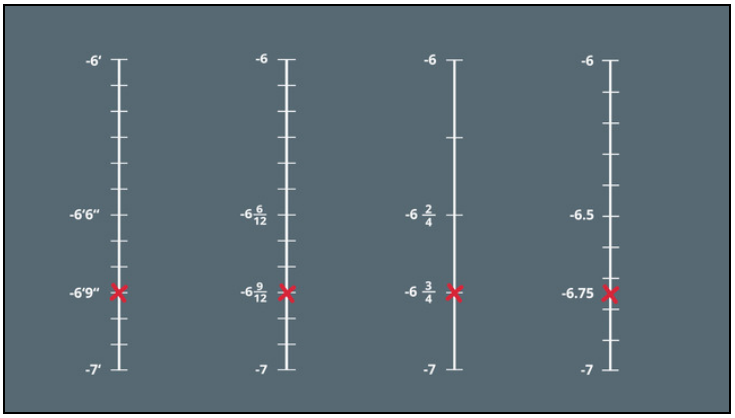
Rational Numbers on the Number Line



1 **Identify the steps for converting height from fraction to decimal form.**

2 Explain how far Tim is above the water shortly after jumping.

3 Determine the decimals and fractions which equal the given values.

4 Find the height of each jump in feet and inches.

5 Convert the depths to see which diver dove deepest.

6 Find out which distances Marshall ran this week.

\+ with lots of tips, answer keys, and detailed answer explanations for all of the problems.

Identify the steps for converting height from fraction to decimal form.

Arrange the steps in order.

A. This fact can be represented as a fraction.

B. We know that inches are smaller divisions of a foot.

C. Finally, we divide the numerator by the denominator, getting the decimal.

D. First of all, we have to determine the height in feet and inches.

CORRECT ORDER ☐ ☐ ☐ ☐

Hints for solving these problems

1 of 6

Identify the steps for converting height from fraction to decimal form.

Hint #1

There are 12 in 1 foot.

Hint #2

So in fraction form, 10 inches is $\frac{10}{12}$ of one foot.

Hint #3

The Greatest Common Factor of 10 and 12 is 2. So we can simplify the fraction to $\frac{10\div 2}{12\div 2}=\frac{5}{6}$

Answers and detailed answer explanations for these problems

1 of 6

Identify the steps for converting height from fraction to decimal form.

Answer key: D, B, A, C

A distance given in feet and inches can be transformed into a decimal by following these simple steps:

1. We have to determine the distance in feet and inches.
2. We know that inches are smaller divisions of a foot. There are 12 inches in one foot.
3. This can be represented as a fraction. We put the inches in the numerator and the total number of inches in a foot, 12, in the denominator.
4. Finally, we divide the numerator by the denominator, getting the decimal.

e.g. $\frac{5}{6} = 5 \div 6 = 0.8\overline{3}$