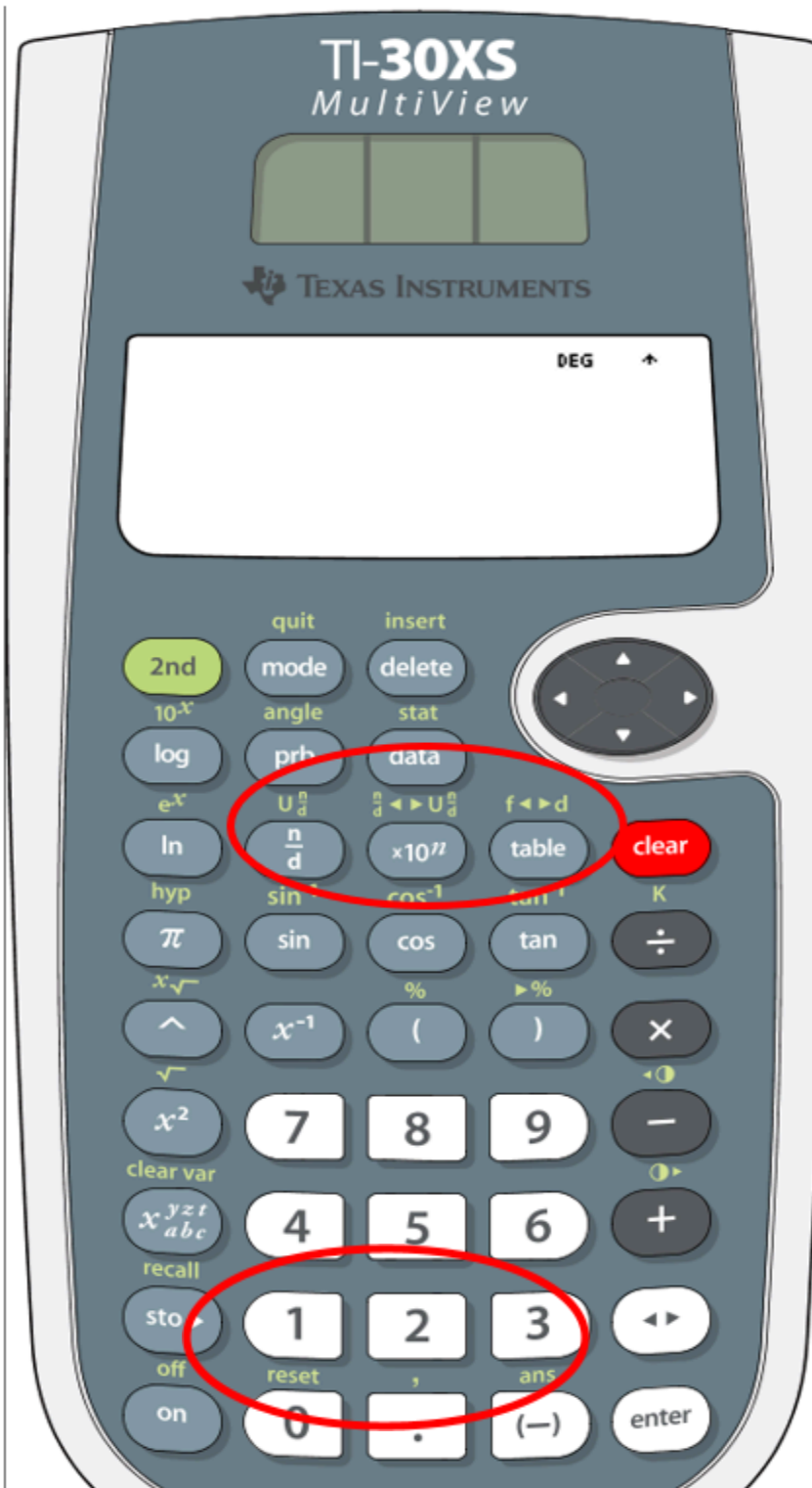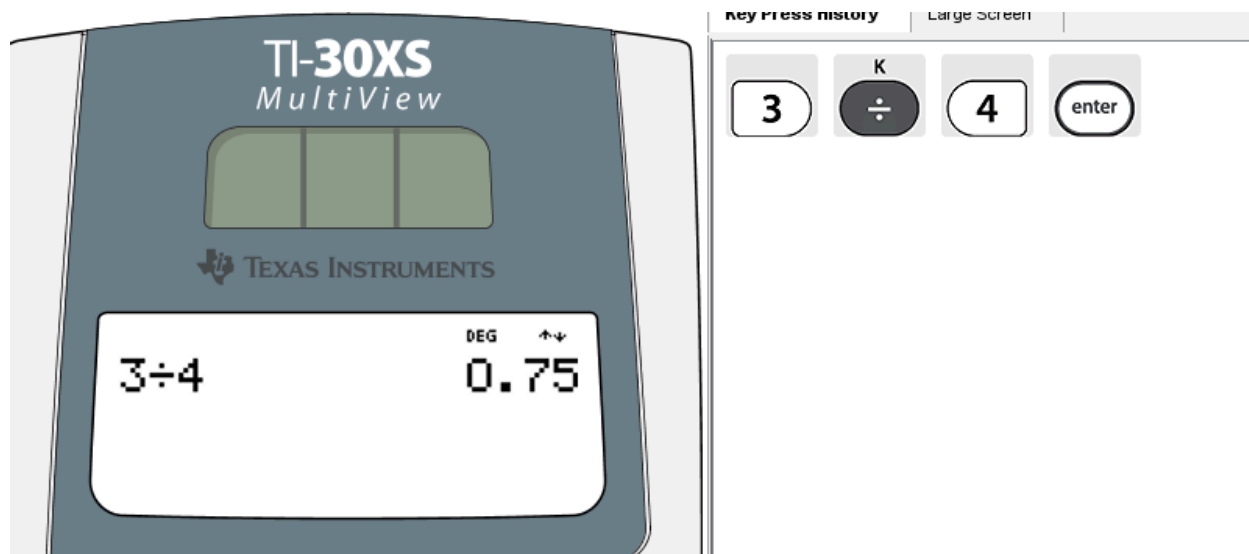# Fractions on the TI 30 XS

There are several ways to enter a fraction into the calculator.

The keys used for working with fractions are found here. You may need to use the second key to access some of them.
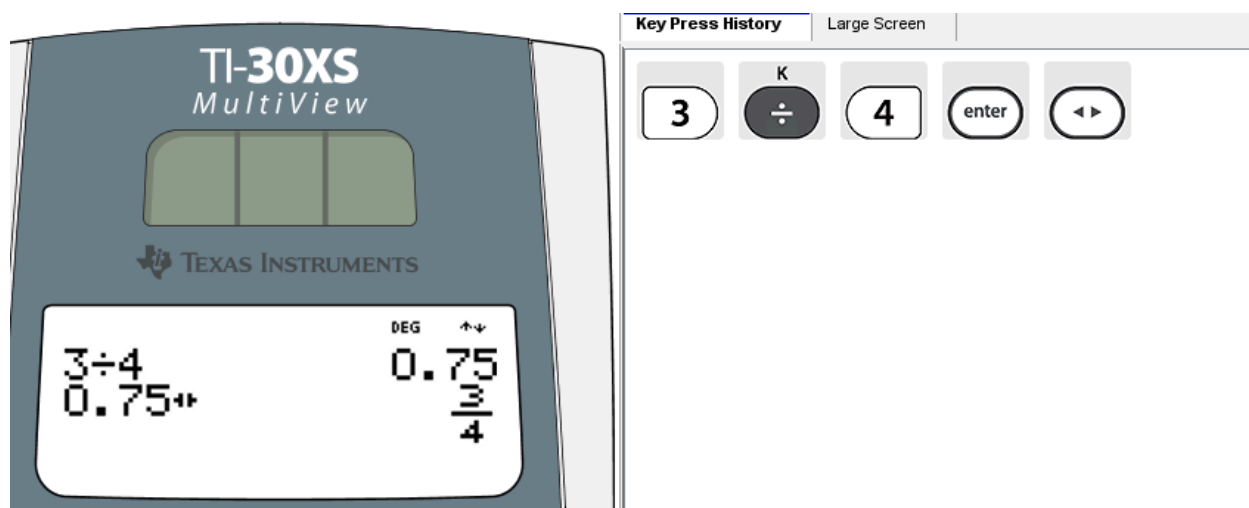
Entering a fraction

Method 1: Using the division key

A fraction represents a division between two numbers. The fraction ¾ represents 3 divided by 4 and can be entered that way.
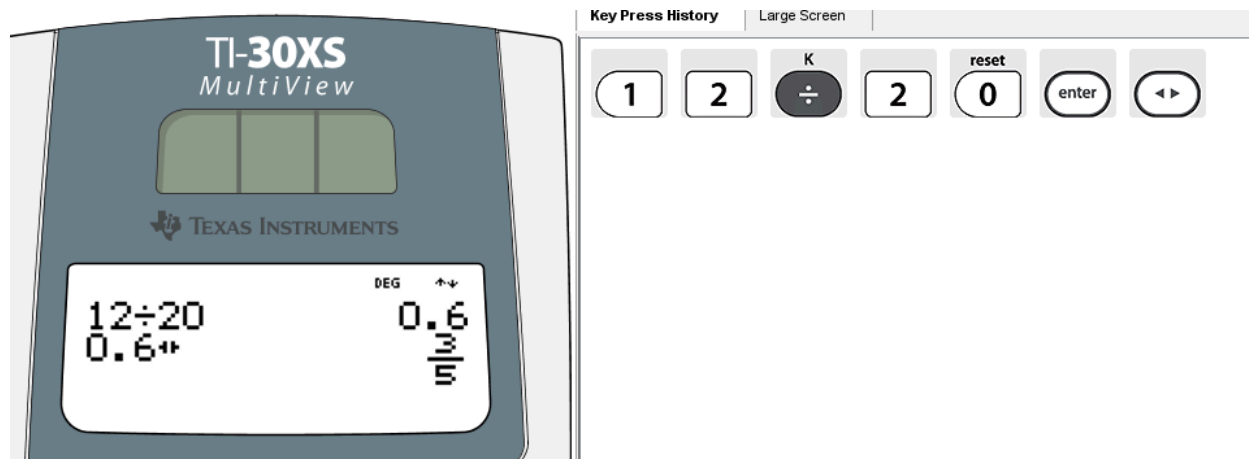

The default display will be in decimal form. (This is also the way to change a fraction into a decimal.) To change this back to a fraction, use the toggle key. .
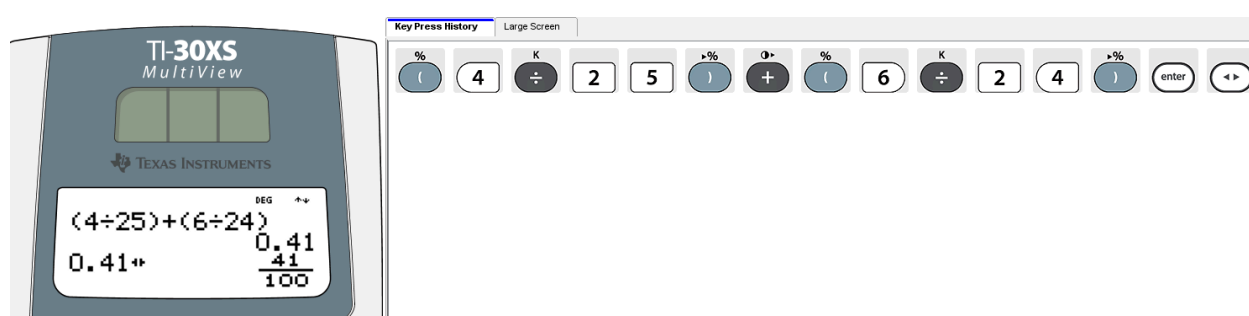
This method, like the method below, will reduce the fraction as well.

You can also use the fraction to decimal key [2nd table] to convert between a fraction and a decimal.

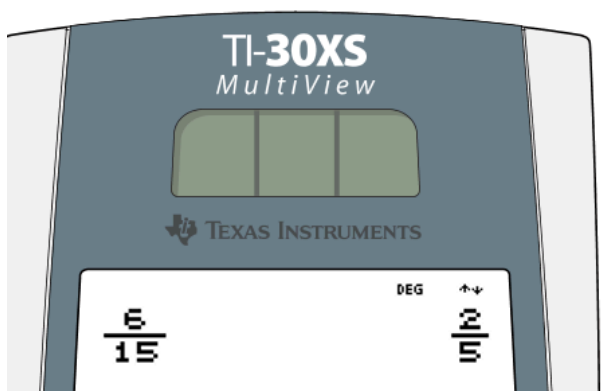If you want to complete calculations using proper or improper fractions, you must put ( ) around the fraction.

Note: You can only use this method with proper or improper fraction. If you are using mixed numbers, you must use method 2 (below).
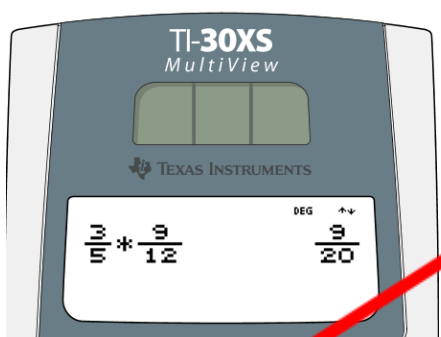
Method 2: Using the fraction key

Entering a proper or improper fraction:

1. Press the fraction key. You will see with the top of the fraction blinking.
2. Enter the numerator and press the down arrow.
3. Enter the denominator and press "enter".

You can also do operations using this key.

Note: you have to use the right arrow to move out of the first fraction in order to press the operation symbol. You need to use the fraction key prior to enter any fraction.
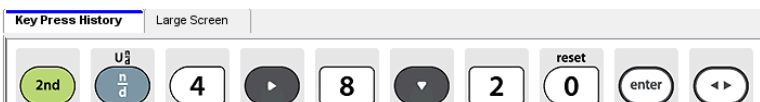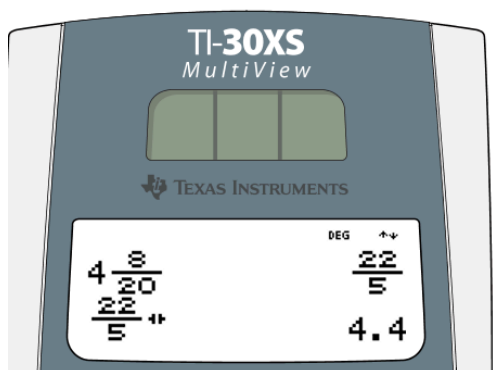
Entering a mixed number

1. Press [U n/d key] (2nd [n/d key]). You will see [icon] .
2. Enter the whole number part and press the right arrow to cursor over to the fraction. [4 icon] , [4 icon]
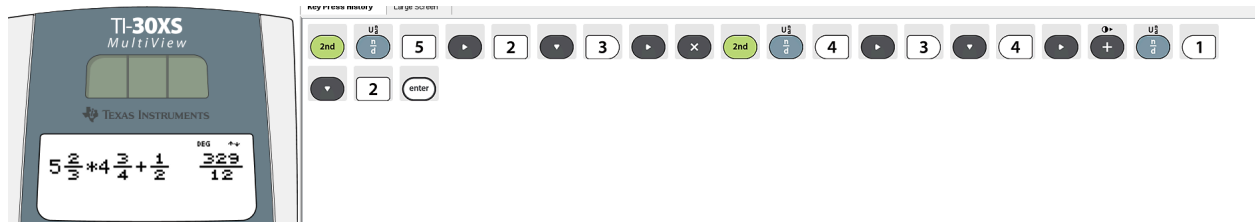3. Enter the fraction as you did above. (Enter the numerator, arrow down, enter the denominator, press "enter".)
4. When you press enter, the improper fraction will appear.
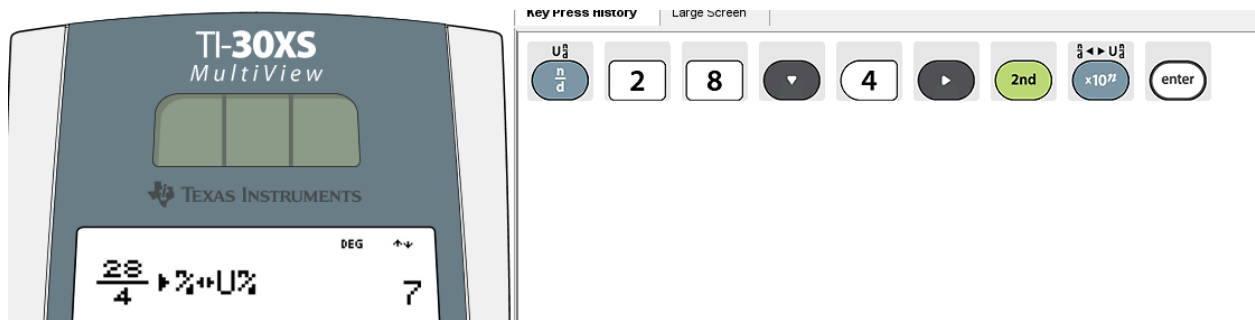5. Use the toggle switch to find the decimal equivalent.

TI-**30XS**
MultiView

TEXAS INSTRUMENTS

DEG

$4\frac{8}{20}$
$\frac{22}{5}$

$\frac{22}{5}$
4.4

Key Press History   Large Screen

2nd [n/d] 4 ▶ 8 ▼ 2 0 enter ◀▶

You can complete operations using mixed numbers by using the [U n/d key] key. You have to use the right arrow to move the cursor to the next operation or fraction.
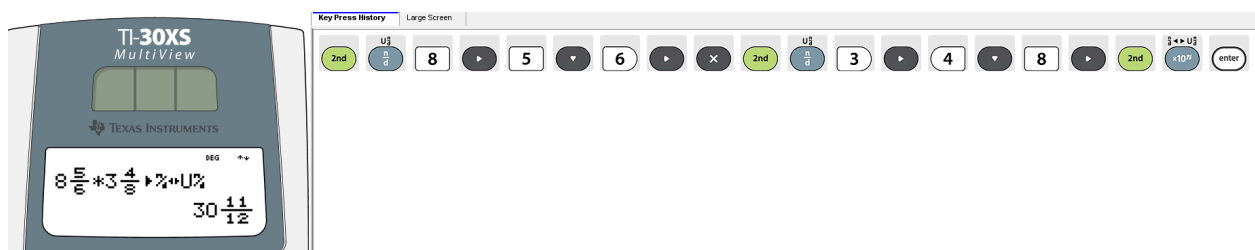
The default answer will be in improper fraction form. To change this to a mixed number

use the ![x10ⁿ] key ("2nd x10^n"). This key will change any improper fraction to a mixed number.
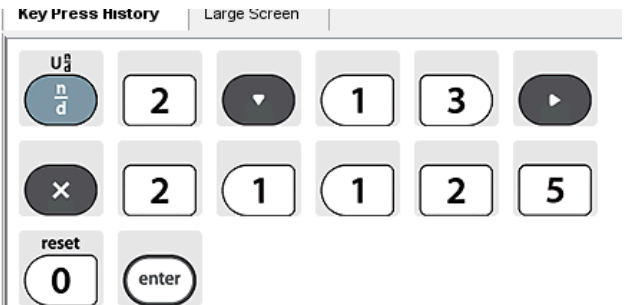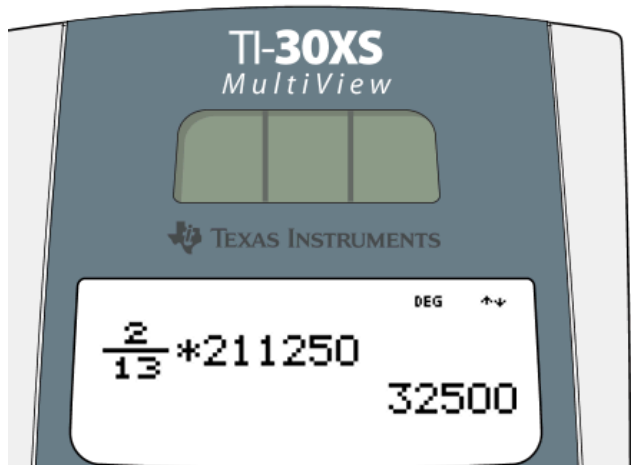

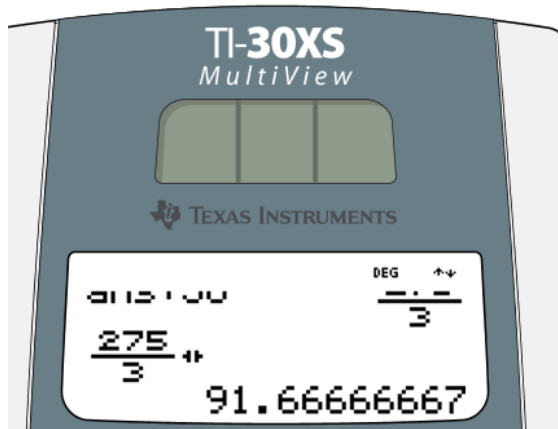It can also be used at the end of an example to return the answer in mixed number form.
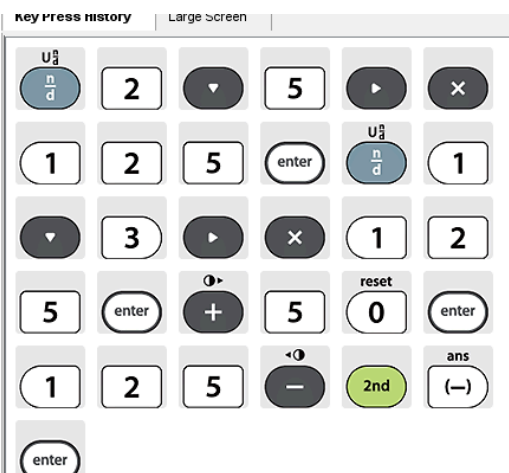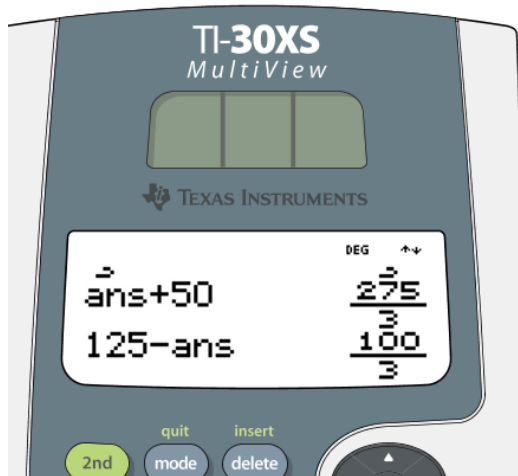

Examples

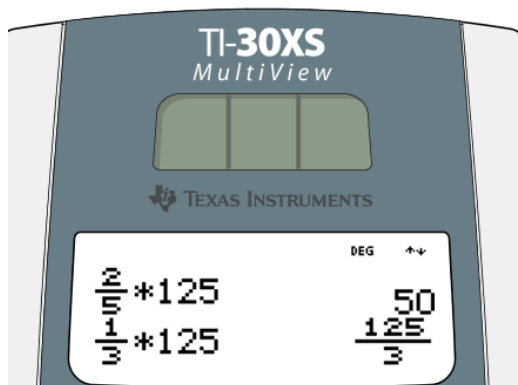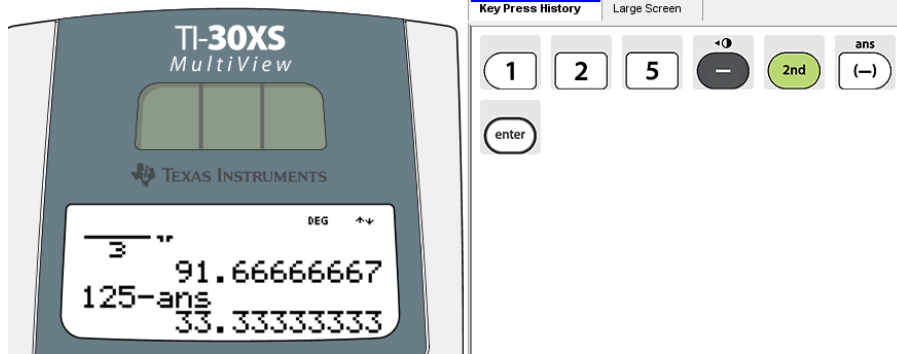**d** The cost of a Holden is $\frac{2}{13}$ of the cost of a Rolls Royce. If the current price of a Rolls Royce is \$211 250, what is the cost of a Holden?

TI-**30XS**
MultiView

TEXAS INSTRUMENTS

DEG

$$\frac{2}{13} * 211250$$

$$32500$$

i The house rates came to \$125 for the month. Janet paid $\frac{2}{5}$ of this, Janice paid $\frac{1}{3}$ and Beatrice paid the rest. How much did Beatrice pay?

DEG

$$\frac{2}{5}*125 \qquad 50$$
$$\frac{1}{3}*125 \qquad \frac{125}{3}$$

DEG

$$ans+50 \qquad \frac{275}{3}$$
$$125-ans \qquad \frac{100}{3}$$

quit   insert

2nd   mode   delete

DEG

$$ans+50 \qquad \frac{275}{3}$$
$$\frac{275}{3} +$$
$$91.66666667$$

g Jim the carpenter needs two pieces of timber for wall framing. One piece is $2\frac{1}{5}$ m long and the other is $1\frac{1}{4}$ m long. Can he cut these from one plank that is $3\frac{1}{2}$ m long?