Use written addition to add decimals; use rounding to estimate totals.

Round each number to the nearest whole, then add to *estimate* the total.

$2.68 + 6.25$

$3 + 6 = 9$

Remember to leave a blank row above the answer line.

Now let's find the *exact* total using the two methods for column addition, the 'expanded' method and the 'compact' method.

Add the 0.01s, then the 0.1s, then the 1s.

$$\begin{array}{rrr} 2 & 0.6 & 0.08 \\ + \; 6 & 0.2 & 0.05 \\ & 0.1 & \\ \hline 8 & 0.9 & 0.03 \end{array}$$

8.93

$$\begin{array}{r} 2.68 \\ + 6.25 \\ 1 \\ \hline 8.93 \end{array}$$

Close to our estimate!

Use written addition to add decimals; use rounding to estimate totals.

Round each number to the nearest whole and add to estimate the total.

22.3 + 6.83

22 + 7 = 29

Now let's find the exact total using compact column addition.

Are you happy with this layout?

```
  2  2.3
+ 6.8  3
-------
```

The columns need to be aligned correctly.
We need to align tenths with tenths, etc.
An easy way to do this is to align the decimal point in each number.

```
  2  2.3
+    6.8  3
     1
-------
  2  9.1  5
```

Use written addition to add decimals; use rounding to estimate totals.

Red ribbon: 2.23m
Green ribbon: 3.71m
Blue ribbon: 4.84m

Estimate the total length of the three ribbons by *rounding* each number to the nearest whole..

2 + 4 + 5 = 11

$$\begin{array}{rr} & 2.23\,\text{m} \\ & 3.71\,\text{m} \\ + & 4.84\,\text{m} \\ & 1 \\ \hline & 10.78\,\text{m} \end{array}$$

It's just like adding two numbers but we just have one more digit to add in each column…