By the end of this lesson you will be able to _____,

Example 1 – Calculating Percent Error

The weatherman said we would get _____ inches of snow, but we only got _____ inches. What was his percentage error?

What is a percentage error? _____.

<div style="text-align:right">

What you can do…

Calculate the error by _____

_____

Divide the error by _____

Covert to a percentage by _____

</div>

Example 2 – Calculating the Percentage Error

The boiling point of ethyl alcohol should be _____, but Joshua found it to be_____ ! What was Joshua's percentage error?

<div style="text-align:right">

What you can do…

Calculate the error by _____

_____

Take the absolute value of _____

Divide the error by _____

Covert to a percentage by _____

</div>

Who was more accurate the weatherman or Joshua?

Having a _____ percent error is going to be more desirable

Example 3 – Calculating the Percentage Error for π (pi)

What is pi? _____.

Most often we use the number _____ for pi in calculations with circles.

But pi is an _____, a decimal number that keeps going without repeating patterns.

    π = _____...

    = _____

When we use the number 3.14 for pi, what is the percentage error? _____

When we use the fraction $\frac{22}{7}$ for pi, what is the percentage error? _____

Which estimated number is closest to the true value of pi? _____ Why? _____

_____

Your Turn to Practice!

1) You thought you would get an _____% on your math test. You got an _____%. What was your percentage error?

2) The band expected 800 fans to show up, but 950 fans showed up instead. What was the band's percentage error?

3) The body shop estimated the repairs on your car would be $_____. You had to pay $_____ instead. What was the shop's percentage error?

4) You expected to run one lap in _____ seconds. It took you _____, what was your percentage error?