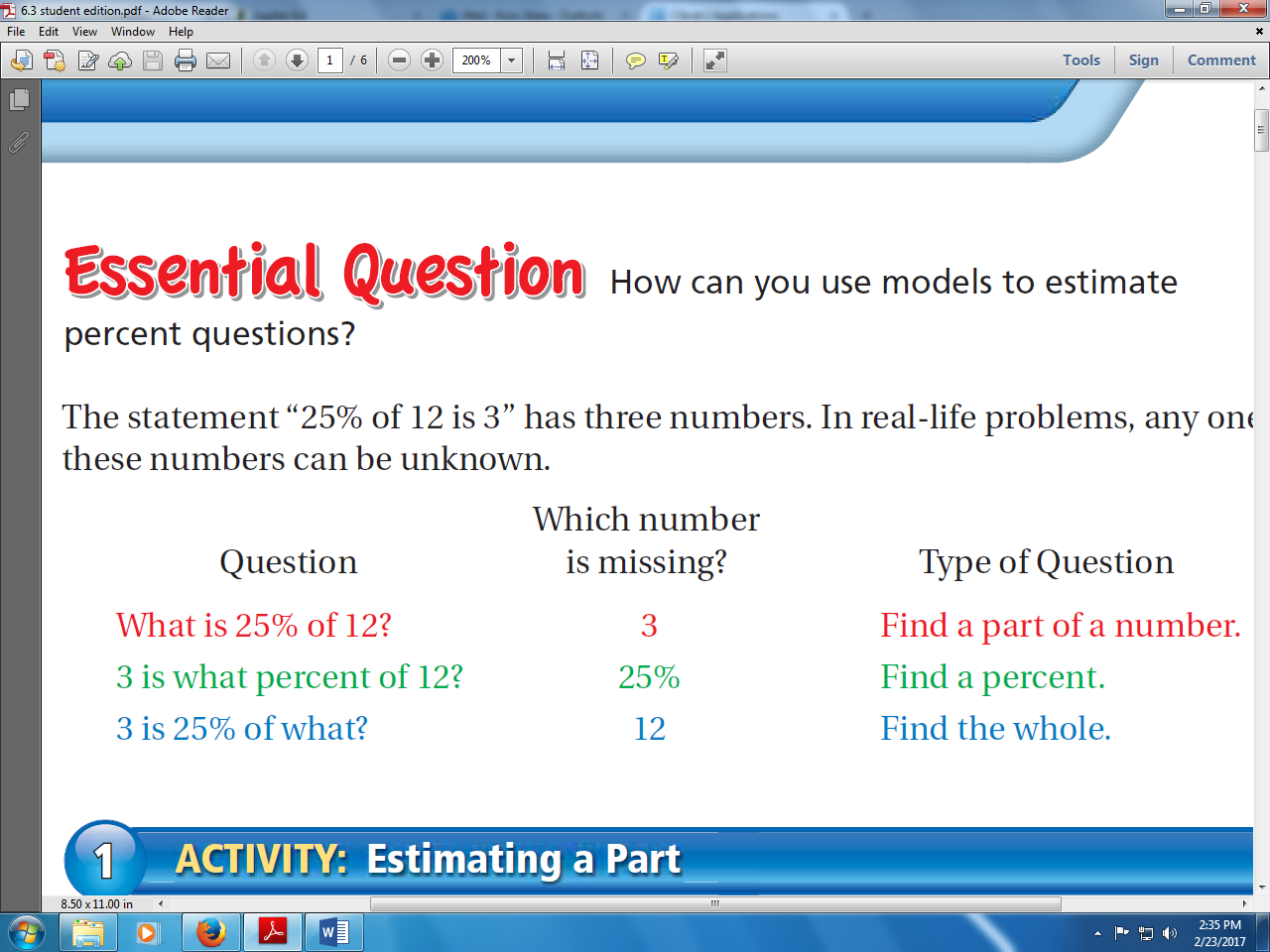
**6.3 The Percent Proportion**

EQ: How can we use the percent proportion to find parts, wholes and percents?

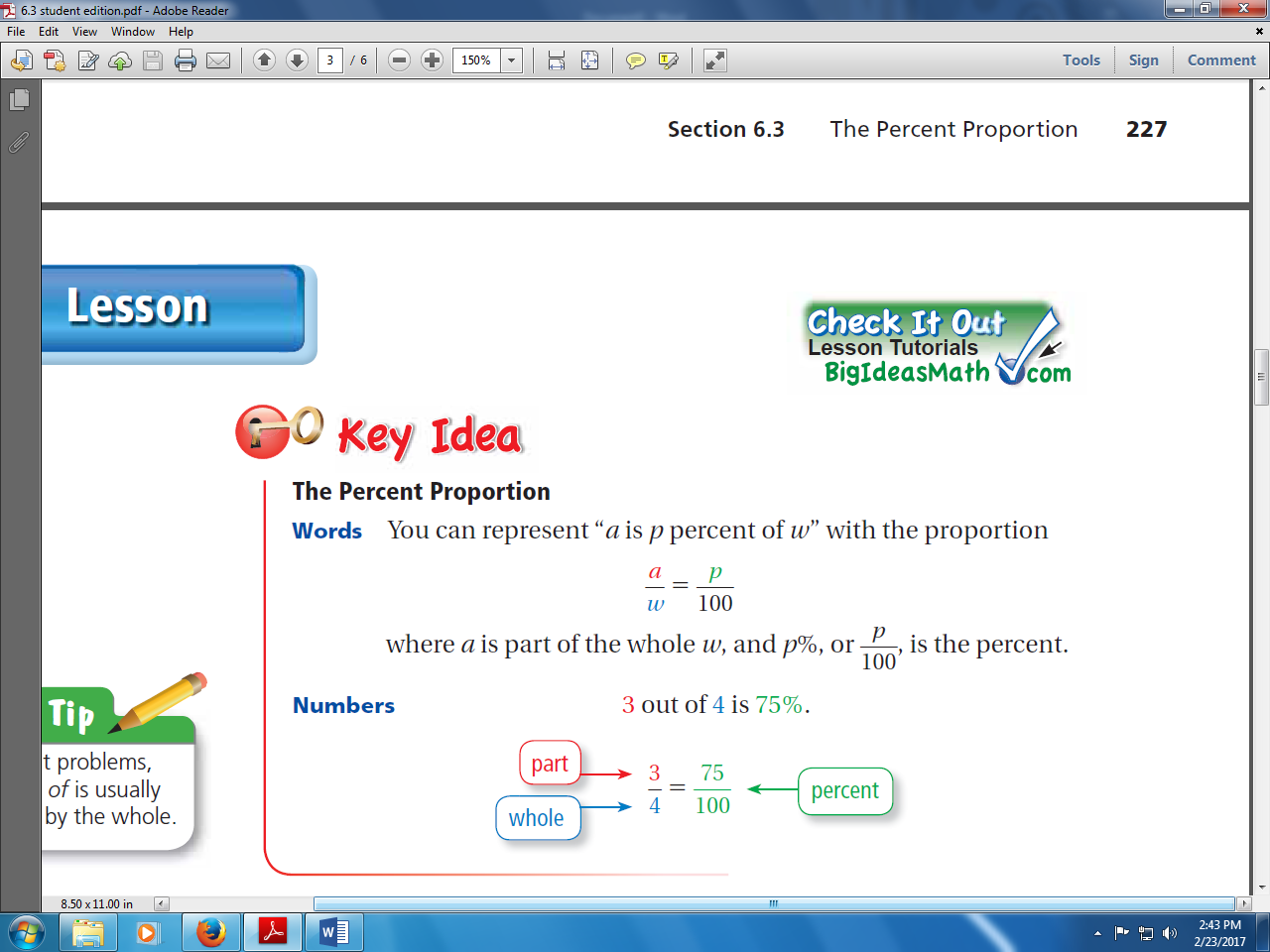
Percent statements such as “25% **of** 12 is 3” have ***three*** numbers. In real-life problems, any one of these numbers can be unknown. We can use the **percent proportion** to solve for any of the three unknowns.



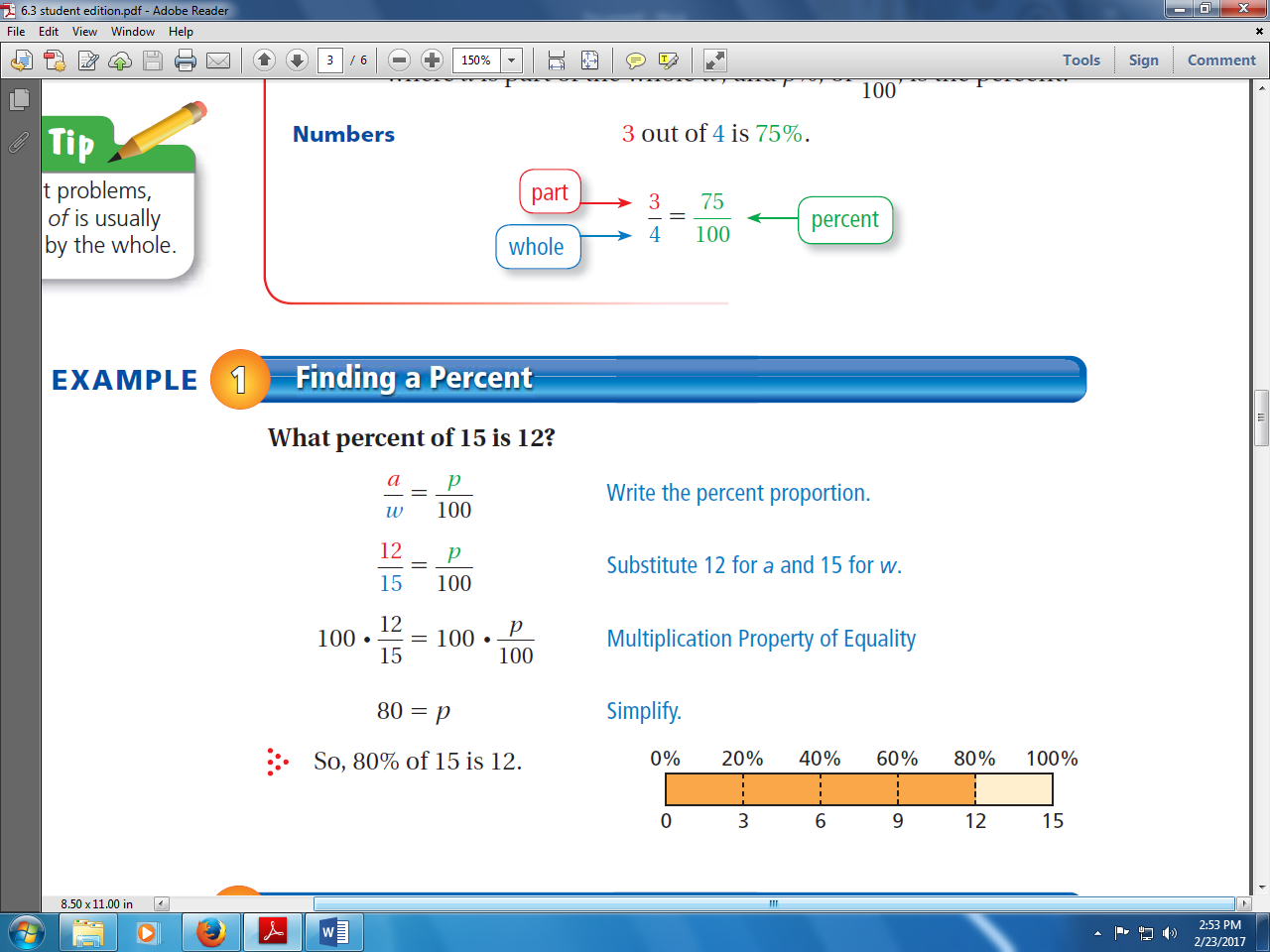
= **a**

= **p**

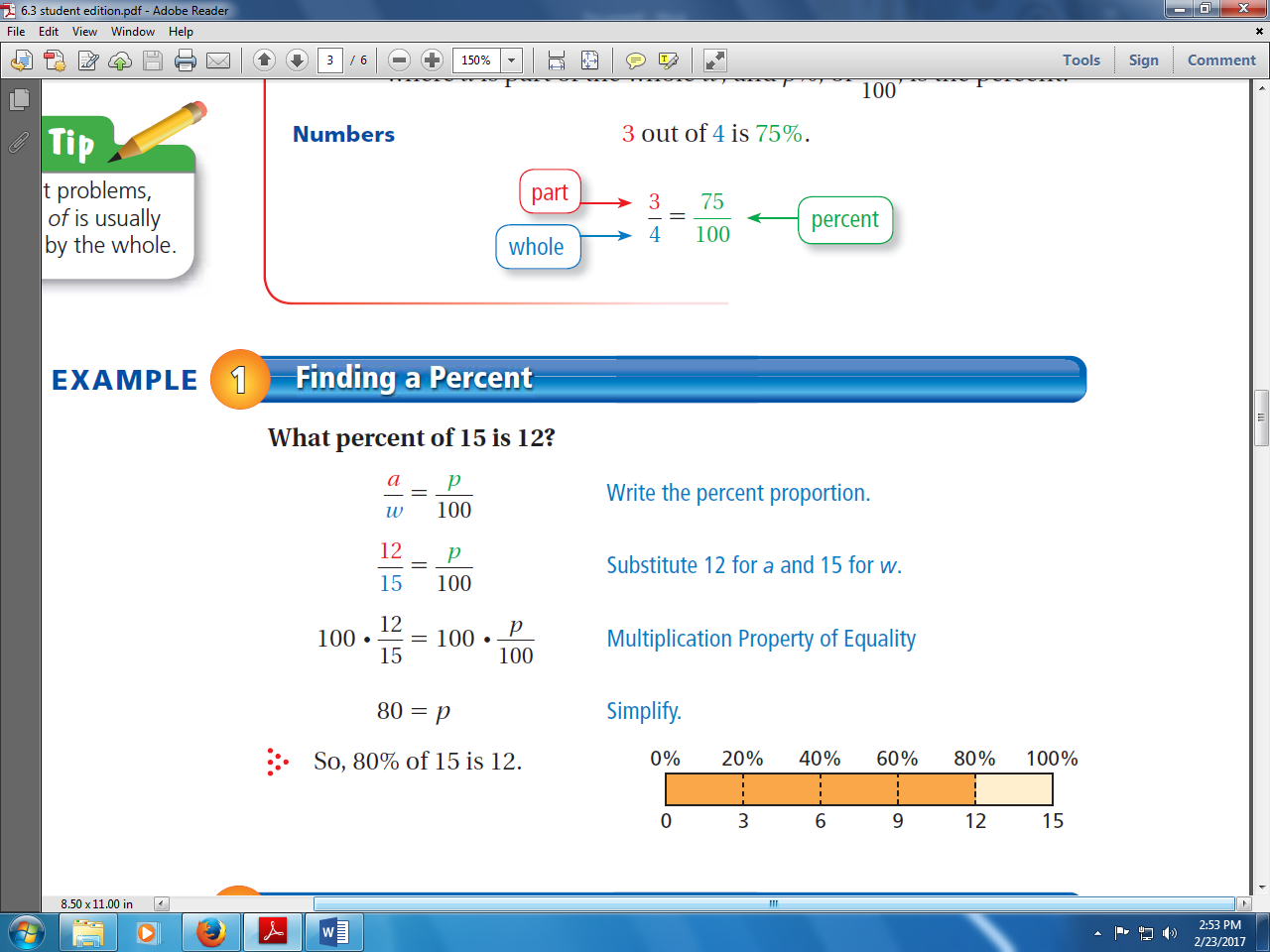
= **w**



\*In PERCENT problems, the word **OF** is usually followed by the **whole**\*



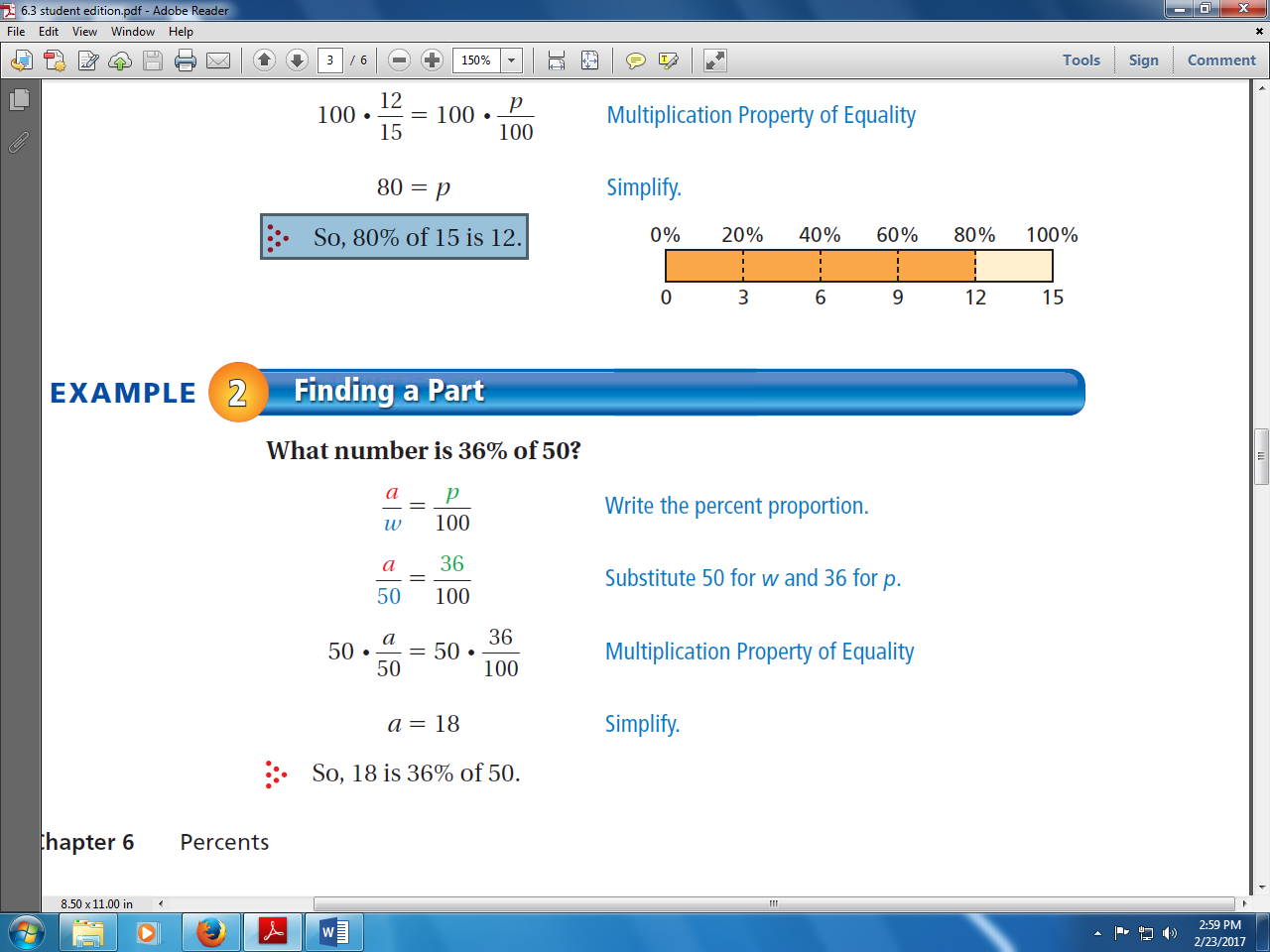
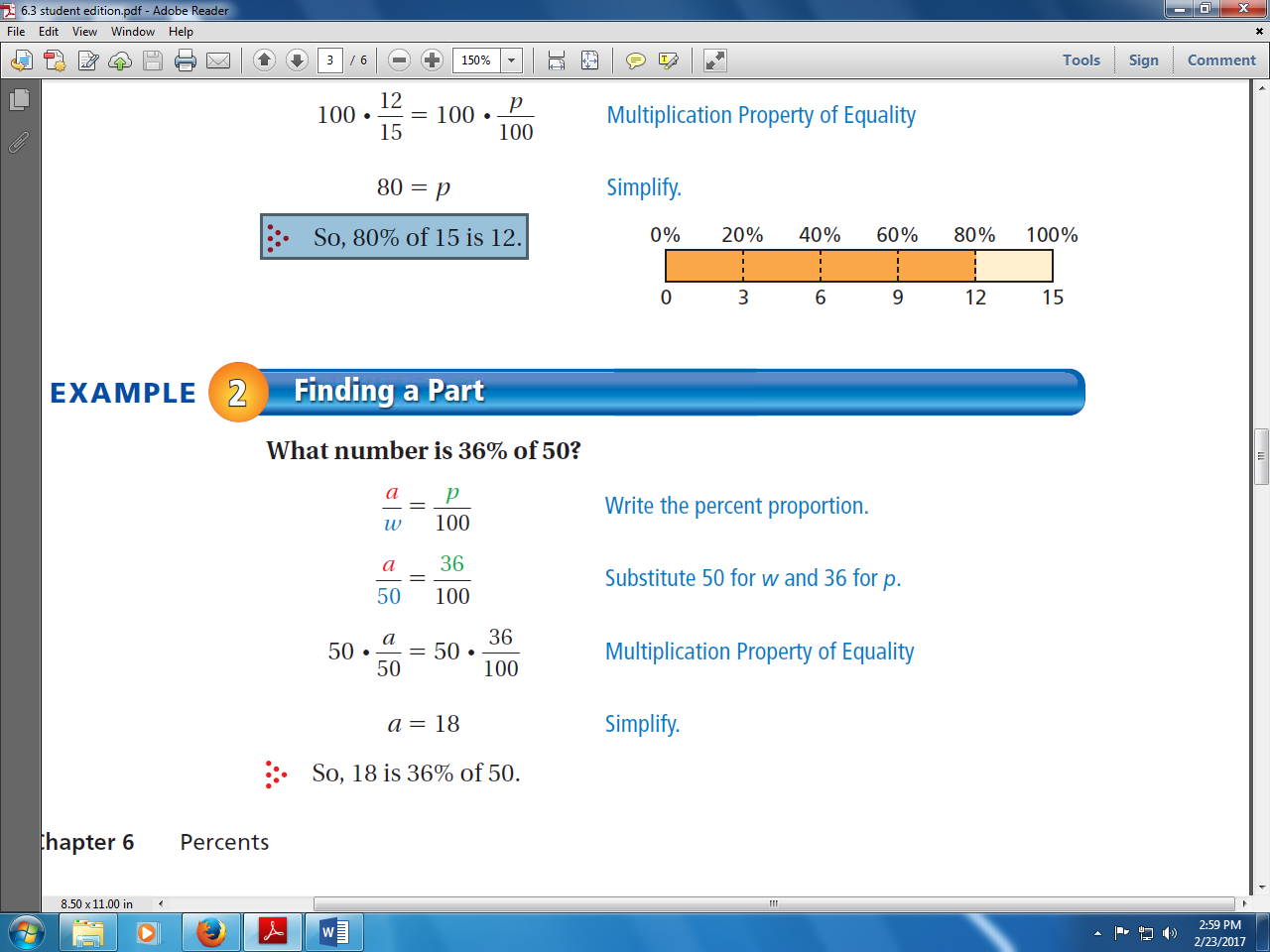
**What percent of 15 is 12?**

**Step 1: Write the percent proportion.**

**Step 2: Substitute 12 for a and 15 for w.**

**Step 3: Solve for p.**



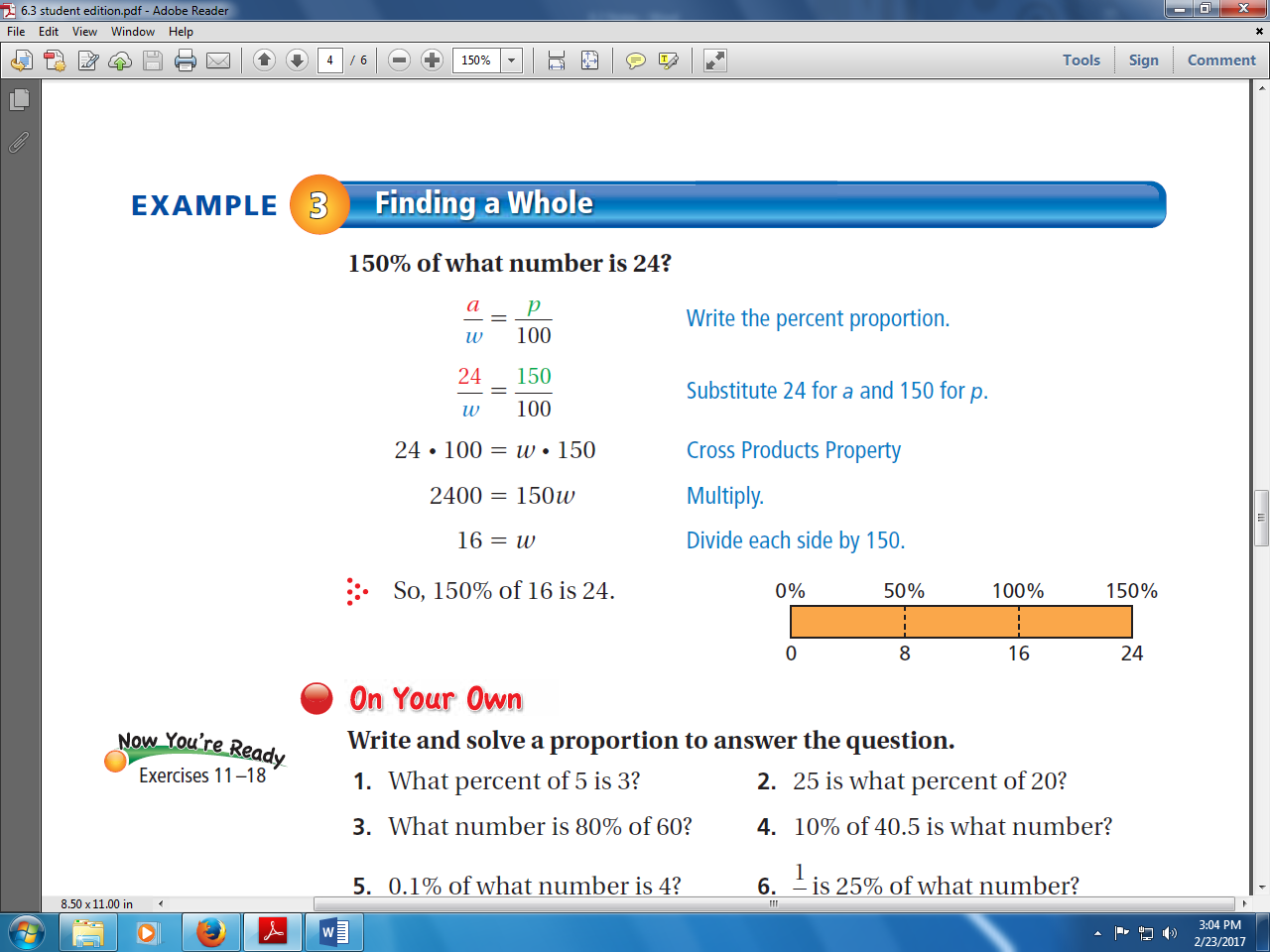
**What number is 36% of 50?**

**Step 1: Write the percent proportion.**

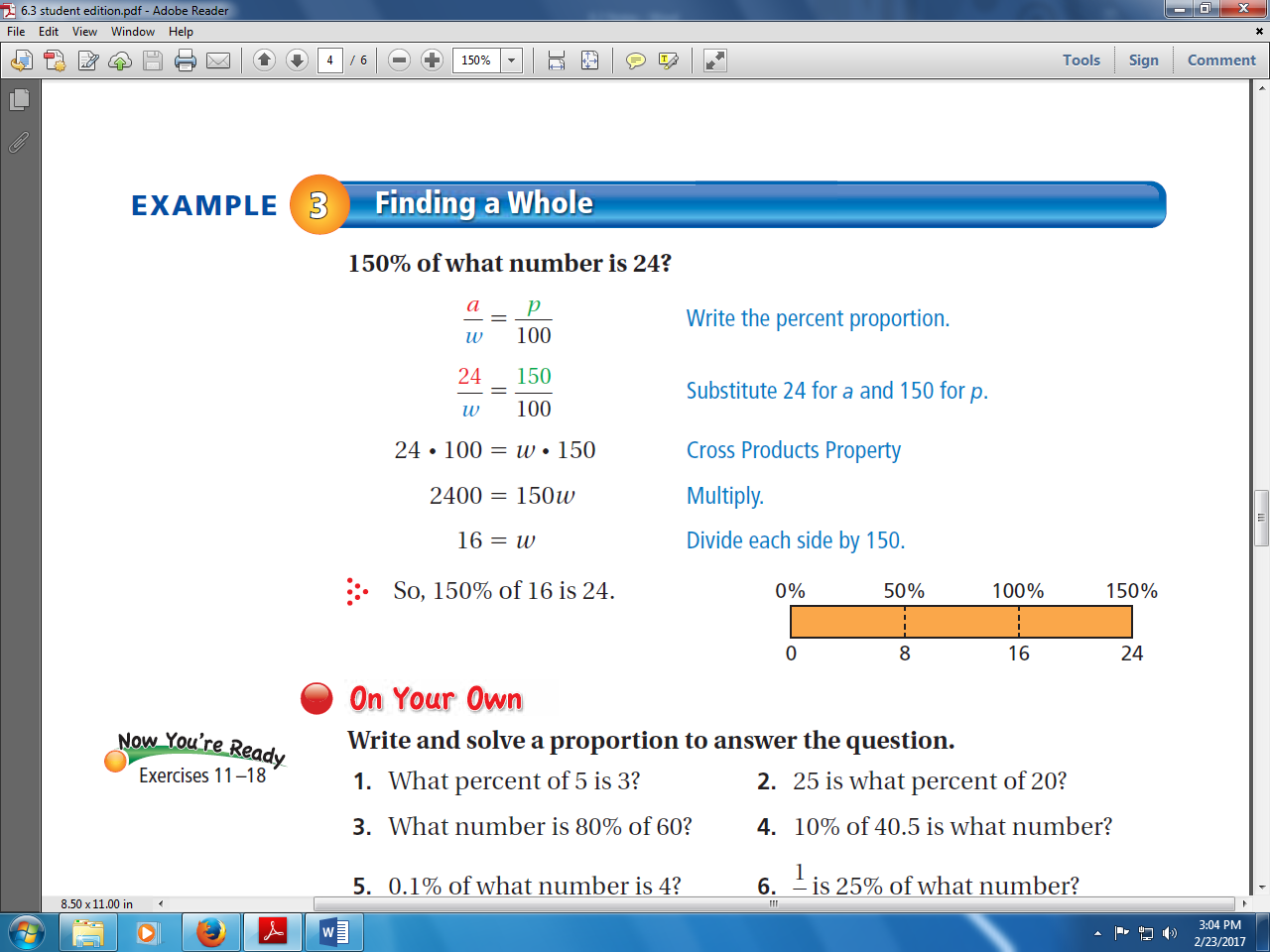
**Step 2: Substitute 50 for w and 36 for p.**

**Step 3: Solve for a.**

****



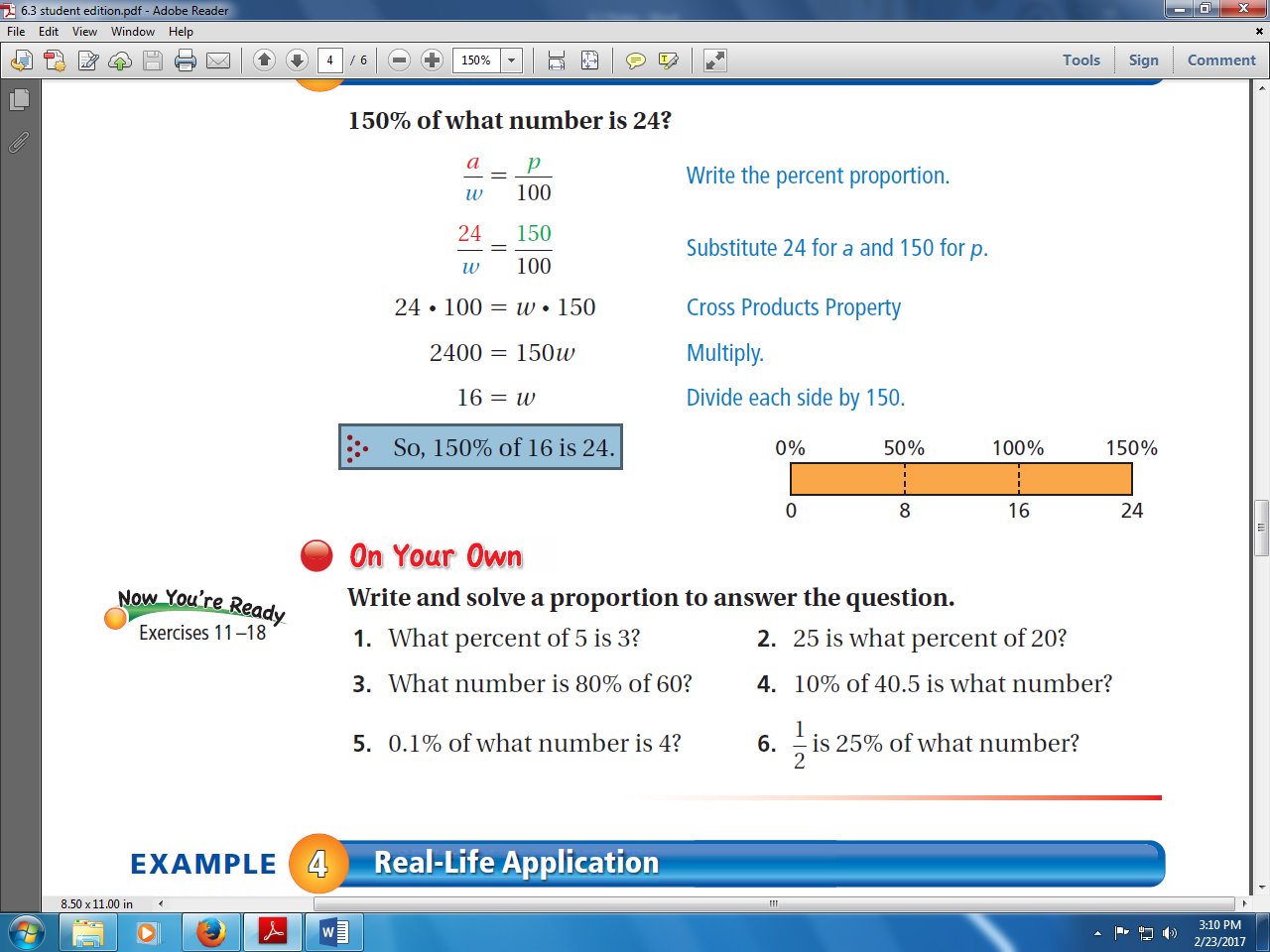
**150% of what number is 24?**

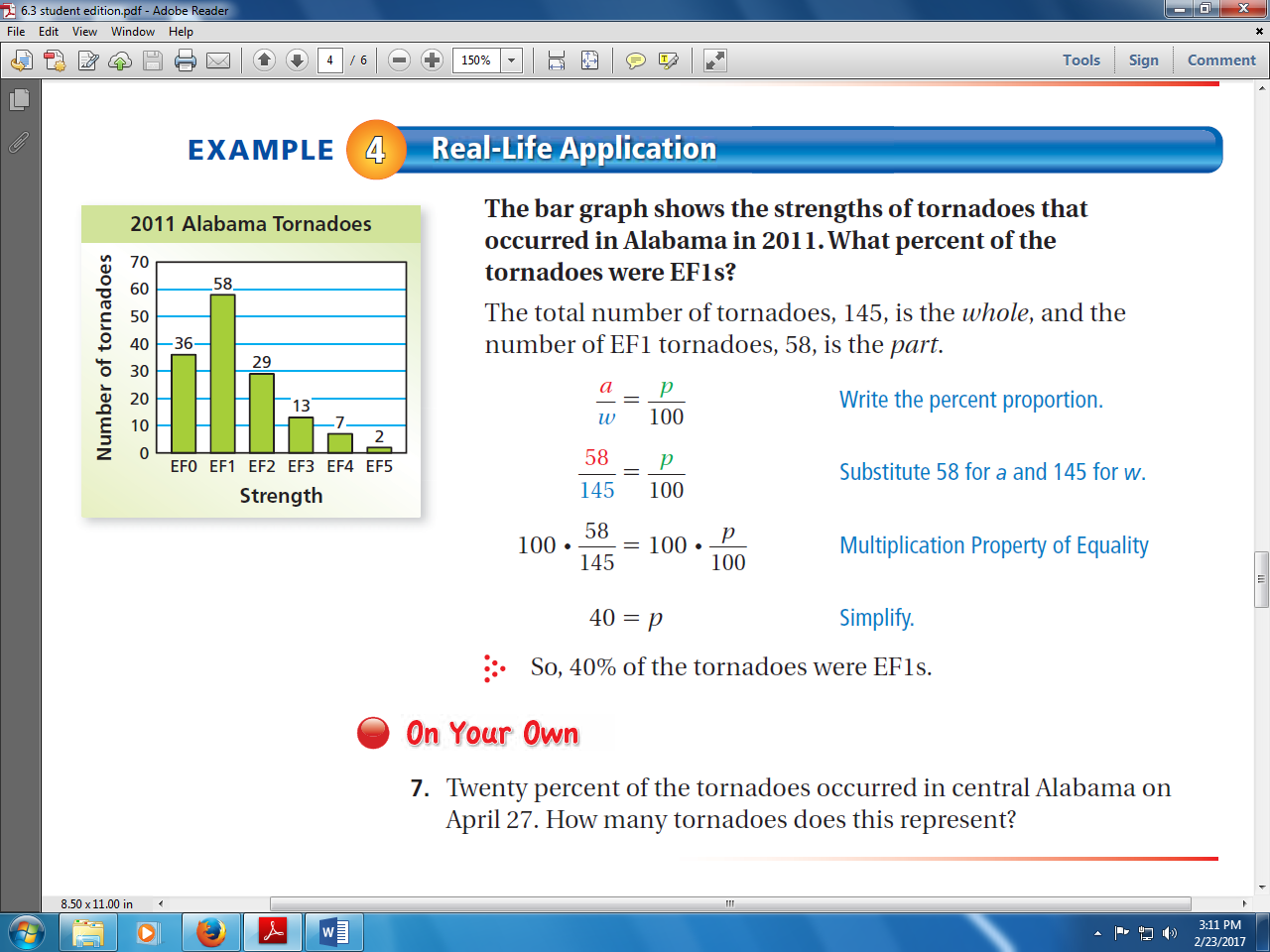
**Step 1: Write the percent proportion.**

**Step 2: Substitute 24 for a and 150 for p.**

**Step 3: Cross Multiply.**

**Step 4: Solve for w**.





**6.3 The Percent Proportion**

EQ: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

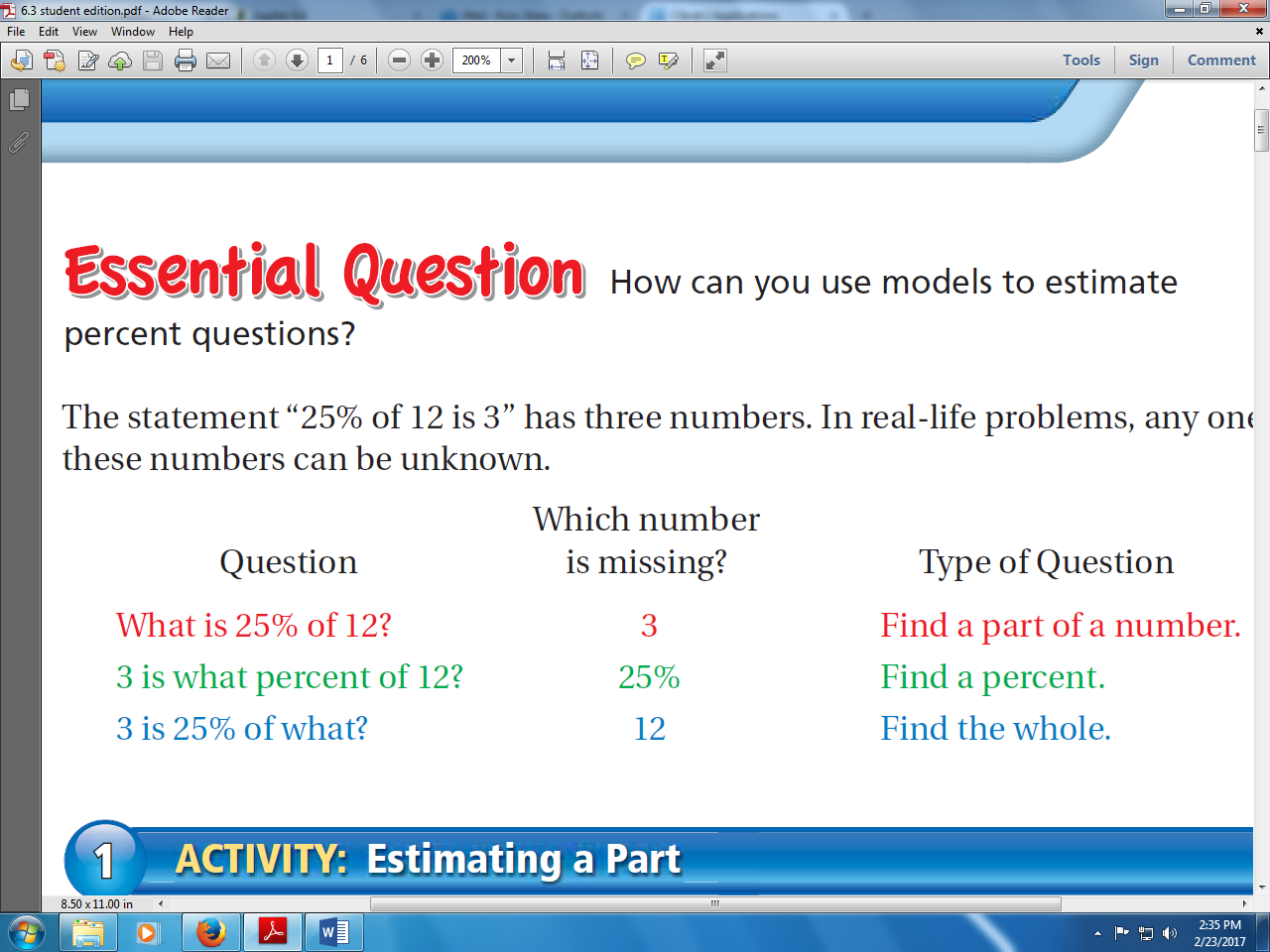
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Percent statements such as “25% **of** 12 is 3” give ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

values. In real-life problems, \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ of these

numbers can be unknown. We can use the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

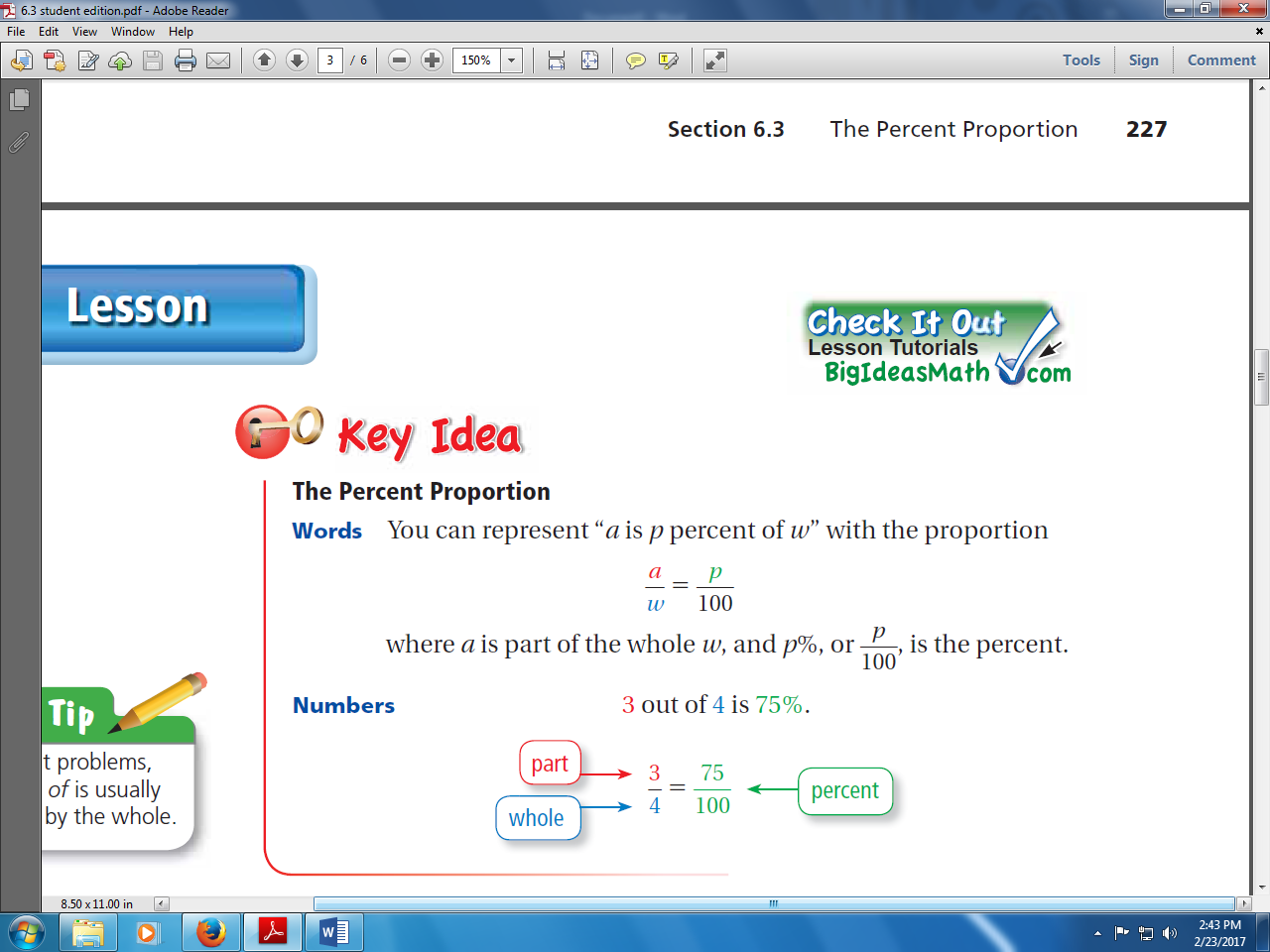
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** to solve for \_\_\_\_\_\_\_\_ of the three unknowns.



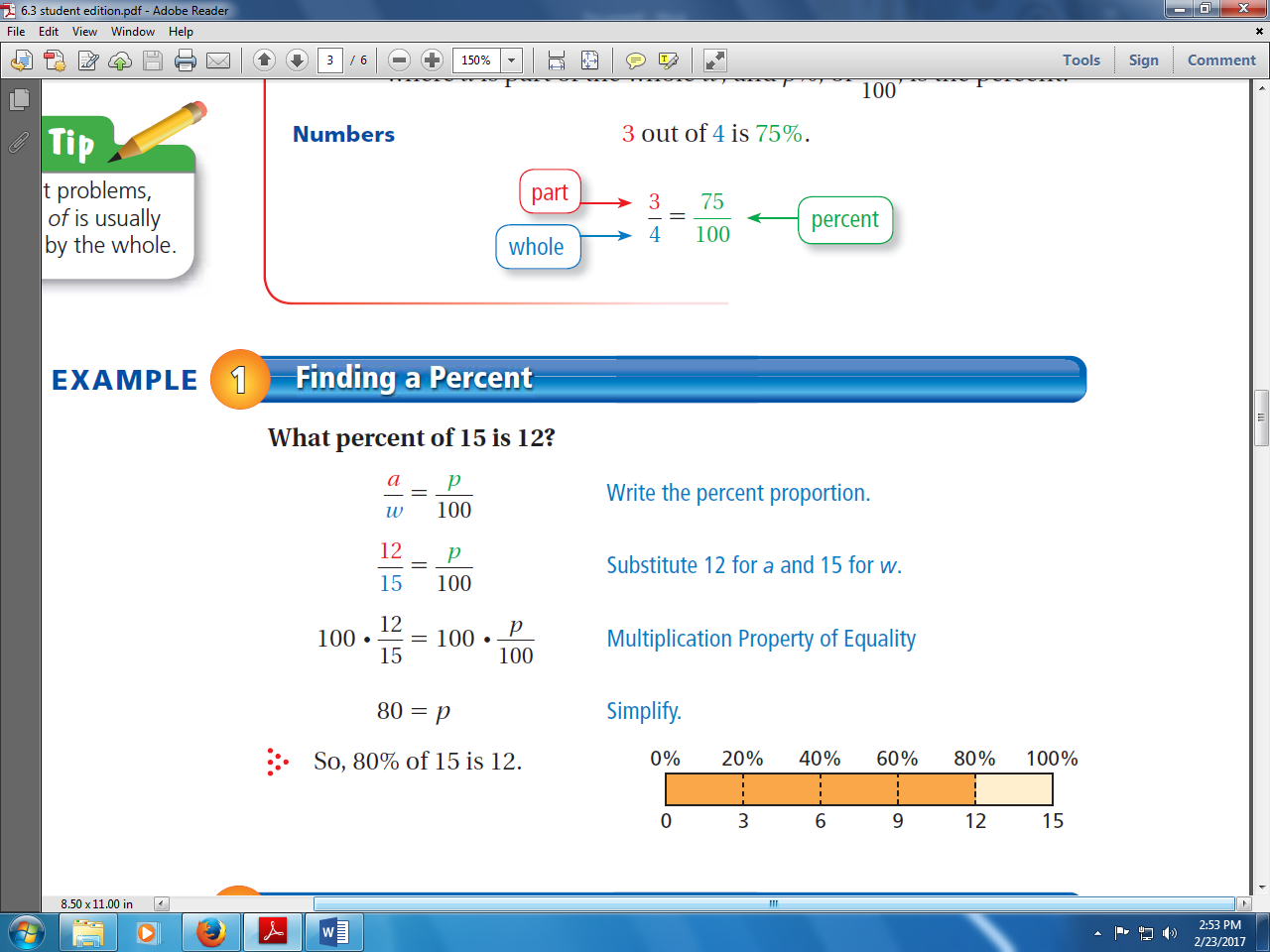
= **a**

= **p**

= **w**



\*In PERCENT problems, the word **OF** is usually followed by the **whole**\*

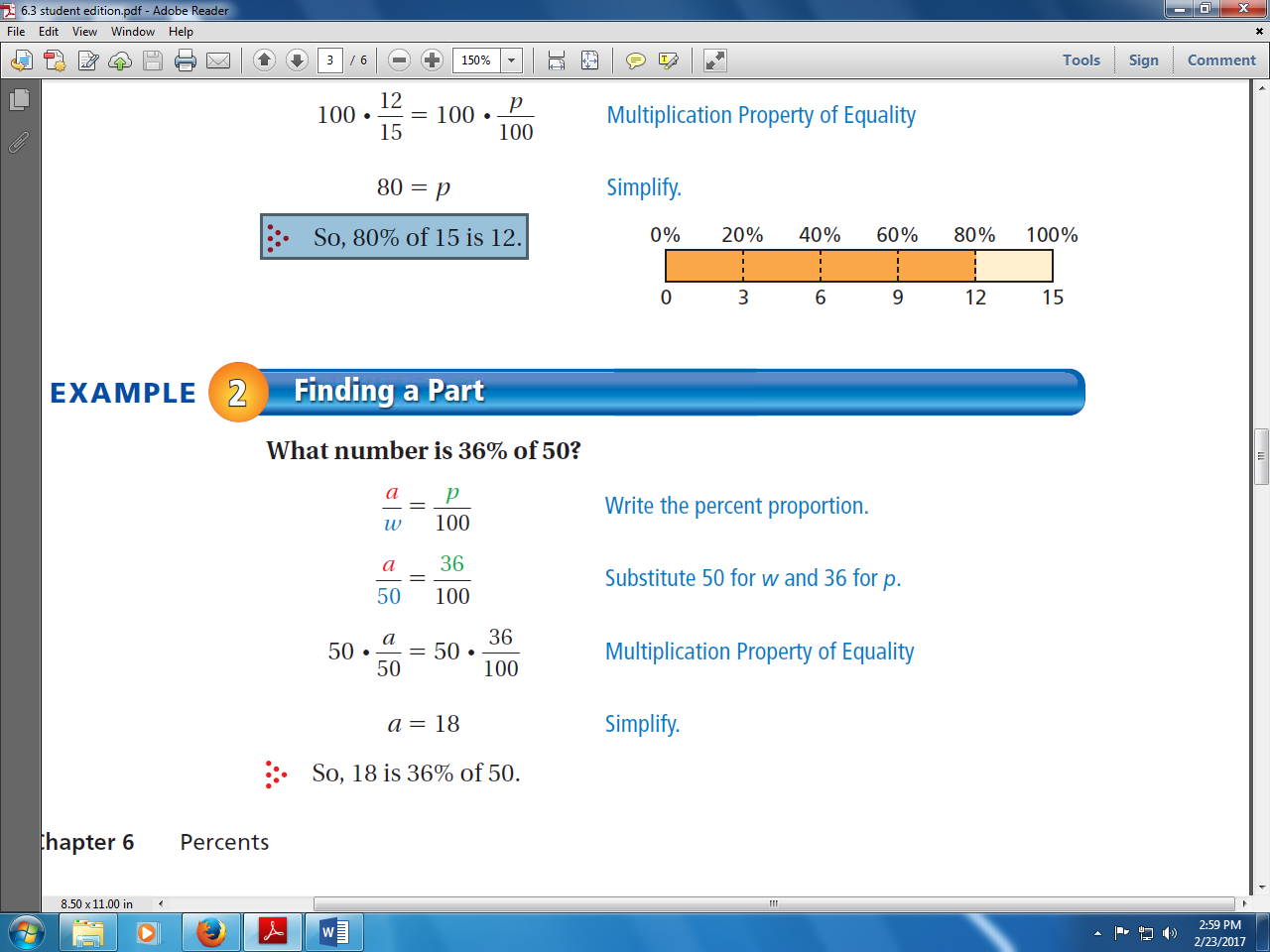


**What percent of 15 is 12?**

**Step 1: Write the percent proportion.**

**Step 2: Substitute given values for a and w.**

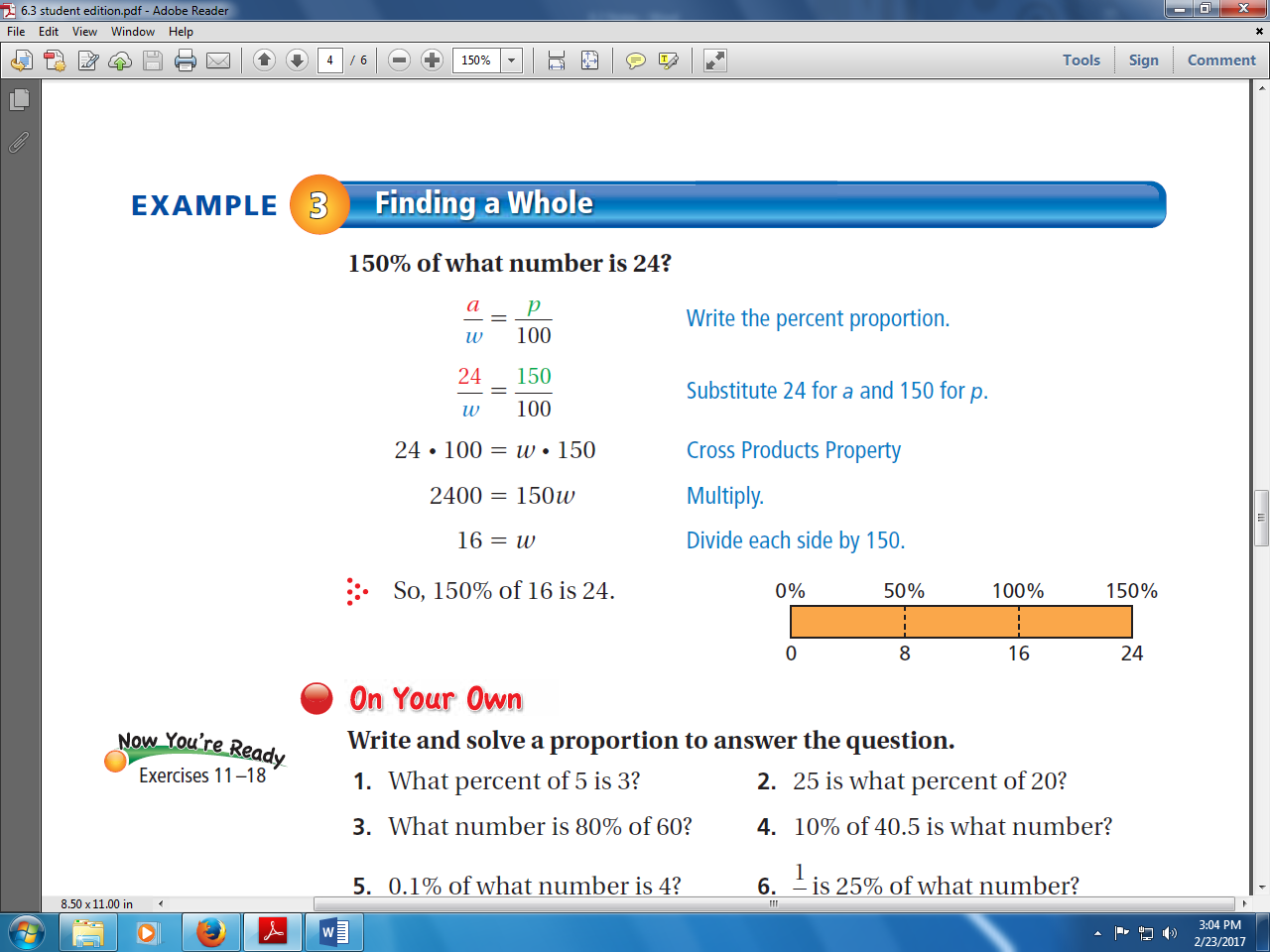
**Step 3: Solve for p.**

**What number is 36% of 50?**

**Step 1: Write the percent proportion.**

**Step 2: Substitute given values for w and p.**

**Step 3: Solve for a.**



**150% of what number is 24?**

**Step 1: Write the percent proportion.**

**Step 2: Substitute given values for a and p.**

**Step 3: Cross Multiply.**

**Step 4: Solve for w**.

