



Dear Seventh Grade Families,

In Unit 4, students will work on the following seventh grade Common Core standards in the Number System (RP) domain.

7.RP.3	Use proportional relationships and use them to solve real-world and mathematical problems. <i>Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.</i>
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Unit 4 Concepts:

- Percent discount & markup
- Commissions
- Taxes & tips
- Simple interest
- Percent of change

Using a Bar Model

Original Price \$80									
Discount 60% of \$80						Sale price 40% of \$80			
10	10	10	10	10	10	10	10	10	10
%	%	%	%	%	%	%	%	%	%
8	8	8	8	8	8	8	8	8	8
60% of \$80 is \$48						40% of \$80 is \$32			

Unit 4 Vocabulary:

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| <ul style="list-style-type: none"> • Bar model • Percent • Discount • Sale price • Proportional relationship • Markup • Tax • Commission • Salary • Tip | <ul style="list-style-type: none"> • Deposit • Withdraw • Balance • Simple interest • Principal • Rate • Time • Percent of change • Proportional relationship |
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Ask questions like these to help your seventh grader as a productive mathematical thinker:

- How do you compute the sale price?
- Explain how to use a bar model to find total discount.
- What is percent markup?
- When compute taxes and tips, how can you tell if your answer makes sense?

Need a review? Check out our lesson videos online!
swunmath.com/student-videos
 If you don't know the class's special name, ask your child's teacher.

We encourage you to talk with your child daily about what was learned in math class.
 Thank you for your support!