### Lesson 11 Practice Problems

1. A car dealership pays $8,350 for a car. They mark up the price by 17.4% to get the retail price. What is the retail price of the car at this dealership?
2. A store has a 20% off sale on pants. With this discount, the price of one pair of pants before tax is $15.20. What was the original price of the pants?
	1. $3.04
	2. $12.16
	3. $18.24
	4. $19.00
3. Lin is shopping for a couch with her dad and hears him ask the salesperson, “How much is your commission?” The salesperson says that her commission is $5\frac{1}{2}\%$ of the selling price.
	1. How much commission will the salesperson earn by selling a couch for $495?
	2. How much money will the store get from the sale of the couch?
4. A college student takes out a $7,500 loan from a bank. What will the balance of the loan be after one year (assuming the student has not made any payments yet):
	1. if the bank charges 3.8% interest each year?
	2. if the bank charges 5.3% interest each year?
* (From Unit 4, Lesson 9.)
1. Match the situations with the equations.
	1. Mai slept for $x$ hours, and Kiran slept for $\frac{1}{10}$ less than that.
	2. Kiran practiced the piano for $x$ hours, and Mai practiced for $\frac{2}{5}$ less than that.
	3. Mai drank $x$ oz of juice and Kiran drank $\frac{4}{3}$ more than that.
	4. Kiran spent $x$ dollars and Mai spent $\frac{1}{4}$ less than that.
	5. Mai ate $x$ grams of almonds and Kiran ate 1.5 times more than that.
	6. Kiran collected $x$ pounds of recycling and Mai collected $\frac{3}{10}$ less than that.
	7. Mai walked $x$ kilometers and Kiran walked $\frac{3}{8}$ more than that.
	8. Kiran completed $x$ puzzles and Mai completed $\frac{3}{5}$ more than that.
* $y=2.33x$
* $y=1.375x$
* $y=0.6x$
* $y=0.9x$
* $y=0.75x$
* $y=1.6x$
* $y=0.7x$
* $y=2.5x$
* (From Unit 4, Lesson 5.)



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