### Lesson 8 Practice Problems

1. A pair of designer sneakers was purchased for $120. Since they were purchased, their price has increased by 15%. What is the new price?
2. Elena’s aunt bought her a $150 savings bond when she was born. When Elena is 20 years old, the bond will have earned 105% in interest. How much will the bond be worth when Elena is 20 years old?
3. In a video game, Clare scored 50% more points than Tyler. If $c$ is the number of points that Clare scored and $t$ is the number of points that Tyler scored, which equations are correct? Select **all** that apply.
	1. $c=1.5t$
	2. $c=t+0.5$
	3. $c=t+0.5t$
	4. $c=t+50$
	5. $c=\left(1+0.5\right)t$
4. Draw a diagram to represent each situation:
	1. The number of miles driven this month was a 30% decrease of the number of miles driven last month.
	2. The amount of paper that the copy shop used this month was a 25% increase of the amount of paper they used last month.
* (From Unit 4, Lesson 6.)
1. Which decimal is the best estimate of the fraction $\frac{29}{40}$?
	1. 0.5
	2. 0.6
	3. 0.7
	4. 0.8
* (From Unit 4, Lesson 5.)
1. Could 7.2 inches and 28 inches be the diameter and circumference of the same circle? Explain why or why not.
* (From Unit 3, Lesson 3.)



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