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	1	ent Increase and Decrease Word Problems  A sports store near Big Bear Lake is having a 20% off sale on all water skis. What will the
	2.	Skis at a sports store near Snow Summit are on sale for \$476. If the original price was \$560, $\frac{560}{476}$ what discount rate does this represent? $\frac{84}{560} = 15\%$
	3.	The average fine for entering a National Forest Wilderness without a permit increased from $\frac{565 \text{ to } \$78}{65}$ . What rate of increase is this? $\frac{78-65-13}{65}=\frac{13}{65}=\frac{2027}{75}=\frac{15}{75$
\$ 75V	4.	\$65 to \$78. What rate of increase is this? $78 - 65 = 13$ $\frac{1}{65} = 202.7$ A stereo is marked down \$75. If this is a 15% decrease, find the sale price? $\frac{75}{2} = \frac{15}{100}$ A pair of snow boots at an equipment store in Big Bear that originally cost \$60 is on sale for
		A pair of snow boots at an equipment store in Big Bear that originally cost \$60 is on sale for \$36. What is the rate of discount? $60-36=24$ $\frac{24}{60}=40\%$ of f
		An employee's hourly raise went up from \$10 per hour to \$12 per hour. What is the rate of increase? $\frac{2}{10} = 20\%$
	7.	A math book at the Victor Valley College bookstore originally cost \$84 to purchase. If they sell it for \$126, what is the markup rate? $126 - 84 = 42$ $42 = 50\%$
	8.	Bruce's hourly wage increased from \$15.50 to \$18.60. What rate of increase does this represent? $\frac{3.10}{15.50} = 2020$
	9.	A stereo system is marked down from \$450 to \$382.50. What is the discount rate? $450-382.5=64.50$ $450$
62.50	.5%	Rosa received a monthly raise of \$162.50. If this represented a 6.5% increase, what is not monthly salary after the raise? $\frac{162.50}{2.50} = \frac{6.5}{100} = \frac{6.5}{2.50}$
		A store marks up merchandise 40% for profit. If an item costs the store \$12, what is the
		Jasmine bought computer which was discounted from \$350 to \$273. What is the discount rate?
		The purchase price of an iPad is \$650. What is the total price if the sales tax rate is $8\%$ ? $650(0.08) = 520  650 + 52 = 4702  650(1.08) = 4702$
	14.	A managers' salary at Green Dot increased from \$48,000 to \$51,360. What is the face of increase?
	15.	An employee's salary increased by \$4,500 which represents a 15% raise. What is the employee's new salary? $\frac{4500}{X} = \frac{15}{100} + \frac{45000}{100} = \frac{15}{100} + \frac{30,000}{100} = \frac{15}{$
	16	Yahoo in Sunnyville currently has a staff of 6200 employees. Next month, Yahoo will decrease its staff by 8%. How many people will be employed by Yahoo next month?

its staff by 8%. How many people  $(0.200 \cdot (0.08) = 496 \checkmark 6200 - 496 5704$ 

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- 17. Darren makes \$12 per hour. Next semester, he will be making \$14 per hour. What rate of increase does this represent? Round the answer to the nearest tenth of a percent.
- 18. Lowes in Rancho Cucamonga is having a one-day 20% off sale. What will the sale price be for an exterior door which regularly sells for \$360? 360 x 0.2 = 72 360 72 = 360 72
- 19. An LCD TV is on sale for 24% off. If the original price was \$800, find the sale price.

  800.0.76 = 608 800.0.24 = 192 800-192 = 608
- 20. An employee's salary for Alar Services is \$37,500. Next year, she will get an 8% increase in salary. How much is her new salary? 37,500. (0,08)= 3000 37,500 + 3000
- 21. A bank tellers' hourly wage will increase from \$24 to \$27.60. What percent increase does this represent?  $\frac{3.6}{24} = 0.15 = 15\%$
- 22. Gas prices decreased this week from \$4 per gallon to \$3.80 per gallon. What rate of decrease does this represent? (Rate is another word for percent.)

4-3.80=.20  $\frac{.20}{4}=0.05$  5%