IM[®] v.360: Casio Technology Instructions Grade 7 – Unit 4: Prop. Relationships and Percentages



Unit 4: Lesson 11 – Percentage Contexts

Activity 11.3: A Car Dealership

Skill: Use of the Ans key and % from the catalog within the Calculate app.

Activity Summary:

In this activity, students will apply their knowledge of percent increase and decrease to real-world scenarios of markup and markdown. A key learning point is recognizing that a 32% increase followed by a 10% decrease on the new value does not equate to a simple 22% increase on the original amount. Percent calculations can be performed in the Calculate app of the calculator either converting to a decimal or utilizing the % key. The Answer key automatically uses the prior result in a new calculation.

 Press — Home and then use the arrow keys to highlight the Calculate app in the top left corner. 	Calculate Statistics Distribution Spreadsheet Table Equation
2. Press either (1) or (2) to open the Calculate app. To find the mark-up of the vehicle, the wholesale price needs to be multiplied by the percent mark-up.	√b≠ [3]
3. In the first part of the task, we are asked to find the 32% mark-up amount on a \$12000 vehicle. One way to complete this task is to use the % symbol from the Catalog . Type in ③ ②.	32
 To add the % symbol, press ๗ – Catalog to start. Press the down arrow, ⊙, to highlight Probability. 	Func Analysis ► Probability ► Numeric Calc ► Angle/Coord/Sexa►
5. Press either (>), (nk), or (ent) to go to the next menu. The % symbol is at the top of this menu and is already highlighted.	% Factorial(!) Permutation(P) Combination(C)



6. Press either (016) or (006) to add the % expression.	to your
7. Finish the calculation by entering ⊗ ① ② ② ⊚ ⊚ followed by either . The mark-up of the vehicle is \$	
8. To find the retail price of the car, as mark-up amount to the wholesale the car. When leading with an oper calculator will automatically insert A ① ① ② ② ② ① ① ① followed by eith ®. The retail price of the car is \$7	price of ation, the ns. Enter ner (0) or
9. Optional – Since the price of the cathousands, the digit separator can turned on to more easily view the tiplace. Press (♣) – Settings for Casettings. Then press either (♦), (♠) followed by the up arrow, (♠) to hig Digit Separator. Press either (♠) Press either (♠) or (♠) to turn the Diseparator on. The radio button in On will now be filled. Press the (♠) return to the Calculate app.	be nousands Calc Settings Digit Separator Digit Separator? On Off Off
10. The second task asks to find the sa after a 10% discount. This can be computed by multiplying by 90%. be entered as an equivalent decir as well. Type $\otimes \bigcirc \bigcirc \bigcirc \bigcirc$ followed \bigcirc or \bigcirc . The cars sale price is \$7	Ans×.90 90% can nal, 0.9, by either
11. To determine the new percent madivide the new sale price by the or wholesale price. Type ① ① ② followed by either ⑩ or . If a fradisplayed, use the — Format kees select Decimal. The new percent is 18.8%. Note that it is not just 32	Ans÷12000 Ans÷12000 action is by to mark-up