Concept – Percentages

Some useful equations when working with percentages are:

To change a percentage to a decimal $decimal = \frac{\%}{100}$

To calculate a percentage

$$\% = \frac{part}{whole} \times 100$$

To find the percentage of an amount:

$$part = \frac{\%}{100} \times whole$$

Eg: Of the 348 people who regularly visit a fast food outlet, 87% will upsize their meal to large if asked. If the staff ask everyone how many will purchase a large meal?

How To – Calculate the price of an item on sale

- 1. Convert the percentage into a decimal.
- 2. Multiply the decimal by the original price.
- 3. Subtract the answer from the original price.

Eg: A new Flashbomb wetsuit is marked at \$699.95. If the store is having a 35% of all wetsuits sale how much will the Flashbomb cost during the sale?

Concept - Simple Interest

Simple interest is calculated using the equation:

 $I = \frac{P \times R \times T}{100} \qquad \qquad A = P + I$

Eg: Amy invests \$12450 into an account that pays simple interest at a rate of 3.25% p.a. How much interest will she earn in 4 years and what will the value of her investment be after this period of time?



How To – Use Finance Solver with Compound Interest
1. On a page press \rightarrow \rightarrow \rightarrow
2. Leave Pmt =0 and PmtAt = END.
3. N =
4. I =
5. PV =
6. CpY = PpY =
7. Move into the FV section and press \fbox{enter} . If you need to know I, use $I=FV-PV$
Don't use the solve function with compound interest. In Finance Solver put your cursor in the section you need to solve for and press enter.
Eg: Amy invests her \$12450 with the bank at 3.25 % p.a compounding monthly and forgets about it. Much later she remembers and when she checks she has \$17 223.65 in the account. How many years have passed?

Concept	CONCEPT PRACTICE QUESTIONS		BOUND REFERENCE	
Prepare for exam questions about percentages, simple interest and compound interest.	<u>Chapter 4 Review</u> <u>Entry</u> : MC 1, 2, 7, 9, 10 SA 4 EA 1a <u>Expected</u> : MC 1, 2, 3, 7, 8, 9, 10 SA 2, 4 EA 1 <u>Expected</u> +: MC 1, 2, 3, 7, 8, 9, 10 SA 1, 2, 4 EA 1		Concept How to Example(s)	