Unit 3 – Finance 3.0C – Application of Percents - Discounts

- the *discount* is the amount by which a price is reduced
- it is often stated as a fraction or a percent of the price e.g. "1/2 off" or "reduced by 60%"
- we can calculate the discount on an item by using the following proportion

Percent Discount	_ Discount (\$)
100	Regular Price

• we can determine the *sale price* of an item by subtracting the discount from the regular price

Sale price = Regular price - Discount(\$)

B. Examples

- 1. Find the amount of the **<u>discount</u>** in \$.
 - a) 15% discount on a \$25 shirt
- b) 50% discount on a \$77.98 pair of pants

- 2. Find the **<u>regular</u>** price.
 - a) a 20% discount of \$8.75

b) a 30% discount of \$12.50

- 3. Find the **percent** discount.
 - a) \$9 discount on a \$28 hat
- b) \$4.36 discount on a \$18.50 shirt

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Percent Discount	Discount (\$)	
100	Regular Price	

4. Find the <u>discount</u> in \$ and the <u>sale</u> price.a) regular price \$32.50, discount 15%

Sale price = Regular price - Discount(\$)

b) regular price \$24.98, discount 25%

- 5. A 40% discount on ski equipment is \$128.
 - a) Find the regular price.

b) Find the sale price.

- 6. A regular price of \$65 is discounted \$20.
 - a) Find the sale price.

b) Find the percent discount.

- 7. An item with a regular price of \$44.99 is discounted 35%.
 - a) Find the dollar value of the discount. b) Find the sale price.

Assignment - Show all work on a separate sheet of paper!

Remember to use the following proportion:

Percent Discount	Discount (\$)	
100	Regular Price	

- 1. Calculate the amount of the <u>discount</u> and the <u>sale price</u> of the following items.
 - a) skates regular price \$89.99, discount 18%.
 - b) bicycle regular price \$142.98, discount 25%.
 - c) stereo regular price \$246.59, discount 10.5%.
- 2. A store gives a 30% discount on equipment purchased by a hockey team. Calculate the cost to outfit **20** players.

shoulder pads - \$47	skates - \$155	helmet - \$50	jersey - \$38
shin guards - \$44	elbow pads - \$30	gloves - \$75	stick - \$48

- 3. Lucia receives a 15% discount on her purchases at Hartley's Sports Store. What is the regular price of each item?
 - a) running shoes, discount \$4.50
 - b) track suit, discount \$8.22
 - c) ski jacket, discount \$22.53

4. Calculate the regular price and the sale price.

- a) 20% discount is \$140
- b) 35% discount is \$120
- c) 18% discount is \$9
- 5. Calculate the percentage discount on each item (to the nearest percent) and the sale price.
 - a) regular price \$160, discount \$12
 - b) regular price \$23.98, discount \$2.48
 - c) regular price \$354.98, discount \$15.62