

Name: _____

Unit 3 – Finance

3.3 – 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

$$\frac{\text{Percent Discount}}{100} = \frac{\text{Discount (\$)}}{\text{Regular Price}}$$

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

$$\text{Sale price} = \text{Regular price} - \text{Discount(\$)}$$

B. Examples

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

2. Find the **regular** 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

$$\frac{\text{Percent Discount}}{100} = \frac{\text{Discount (\$)}}{\text{Regular Price}}$$

$$\text{Sale price} = \text{Regular price} - \text{Discount(\$)}$$

4. Find the **discount** in \$ and the **sale** price.
a) regular price \$32.50, discount 15%

- 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:

$$\frac{\text{Percent Discount}}{100} = \frac{\text{Discount (\$)}}{\text{Regular Price}}$$

- Calculate the amount of the **discount** and the **sale price** of the following items.
 - skates – regular price \$89.99, discount 18%.
 - bicycle – regular price \$142.98, discount 25%.
 - stereo – regular price \$246.59, discount 10.5%.
- 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
- Lucia receives a 15% discount on her purchases at Hartley’s Sports Store. What is the **regular price** of each item?
 - running shoes, discount \$4.50
 - track suit, discount \$8.22
 - ski jacket, discount \$22.53
- Calculate the **regular price** and the **sale price**.
 - 20% discount is \$140
 - 35% discount is \$120
 - 18% discount is \$9
- Calculate the **percentage discount** on each item (to the nearest percent) and the **sale price**.
 - regular price \$160, discount \$12
 - regular price \$23.98, discount \$2.48
 - regular price \$354.98, discount \$15.62