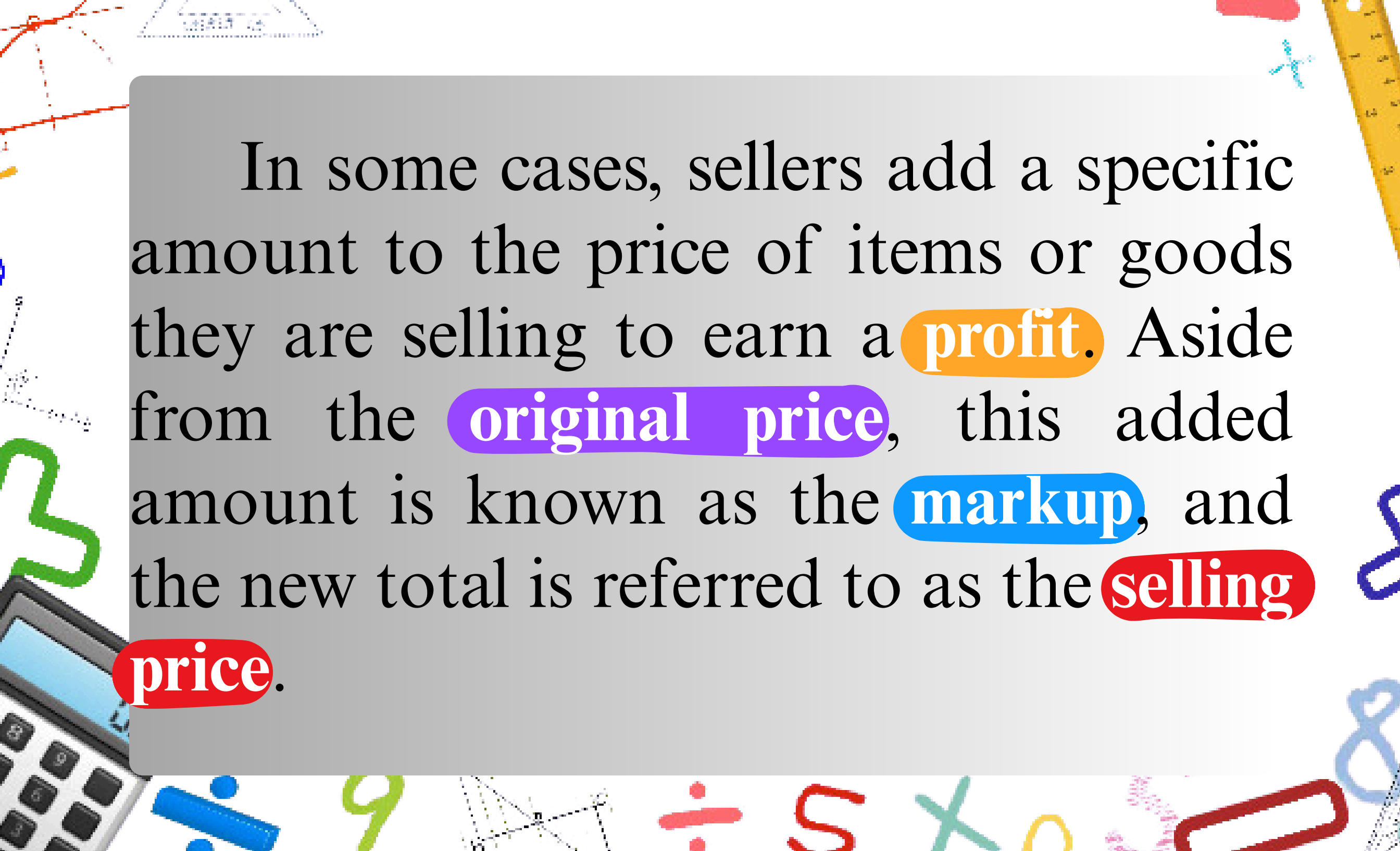


SOLVING MARKUP PRICE

The background is a collage of various mathematical and school-related items. At the top left, there's a red dashed line forming a star-like shape. Below it, a green squiggly line. On the left side, a portion of a grey calculator is visible. At the bottom, there are several colorful mathematical symbols: a blue percent sign, a green number 9, a red division sign, a red number 5, a green multiplication sign, a yellow number 10, a red number 8, and a blue number 8. There are also some geometric shapes like a triangle and a circle. The text is centered in a grey box with a black border.

In some cases, sellers add a specific amount to the price of items or goods they are selling to earn a **profit**. Aside from the **original price**, this added amount is known as the **markup**, and the new total is referred to as the **selling price**.

The **markup and selling price** both represent percentages, with the cost serving as the base and the **markup rate** representing the rate added.

Here are some key terms to help you understand this topic:

- **Markup (M)** is the increase in an item's price,
- **Markup Rate (MR)** is the percentage added to the item's cost, and
- **Cost (C)** is the original price of the item.

Example:

Aj owns a small business selling watermelon. He buys each for ₱60.00 and adds a markup of ₱6.00 to cover his expenses and make a profit.

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Solution: $M = ₱6.00$, $C = ₱60.00$, $MR = ?$, $SP = ?$

The formula for the markup rate is:

Markup Rate (MR) = Markup (M) \div Cost (C) \times 100%

or $MR = (M \div C) \times 100\%$

$$MR = \frac{M}{C} \times 100\% = \frac{₱6.00}{₱60.00} \times 100 \quad \text{Substitute the given}$$

$$= 0.10 \times 100 \quad \text{Divide then multiply by 100}$$

$$\mathbf{MR = 10\%}$$

Answer: The mark up rate of the watermelon is 10%

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Aj owns a small business selling watermelon. He buys each for ₱60.00 and adds a markup of ₱6.00 to cover his expenses and make a profit.

The formula for the selling price is:

Sale Price (SP) = Cost (C) + Markup (M) or

$$\begin{aligned} SP &= C + M \\ &= ₱60.00 + ₱6.00 \end{aligned}$$

$$SP = ₱66.00$$

Answer: The total sale price is **₱66.00**.