

A DISCOUNT is a decrease in the original price of an item.

To make a profit, stores charge more than what they pay. The increase from what the store pays to the selling price is called a MARK UP.

Finding a Sale Price

Ex:) The original price of a video game is \$35. What is the sale price?

Notes:



WHAT IS 25% OF 35?

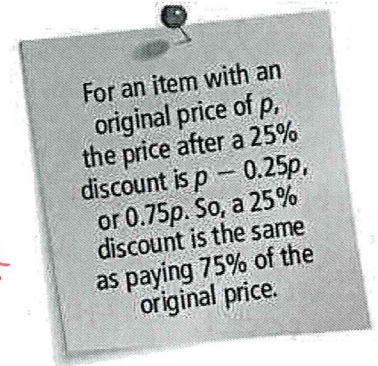
$$n = .25 \times 35$$

$$n = \$8.75$$

$$\text{SALE PRICE} = \text{ORIGINAL PRICE} - \text{DISCOUNT}$$

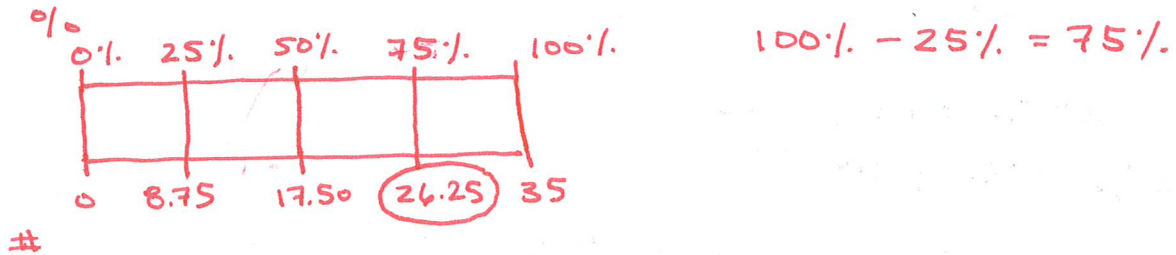
$$\text{SALE PRICE} = 35 - 8.75$$

$$\text{SALE PRICE} = \$26.25$$



Ex:) Use a double tape diagram to answer the question from above.

Notes:



$$\text{THE SALE PRICE IS } \$26.25.$$

OYO:) The original price of a skateboard is \$50. The skateboard is on sale for 20% off. What is the sale price?

Notes:

$$20\% \text{ of } \$50$$

$$.2 \times 50$$

$$10$$

$$50 - 10 = 40$$

THE SALE PRICE IS
\$40⁰⁰.

Finding an Original Price

Ex:) What is the original price of the soccer cleats?

Notes:

IF THEY'RE 40% OFF,
WHAT % WAS PAID?

$$100\% - 40\% = 60\%$$

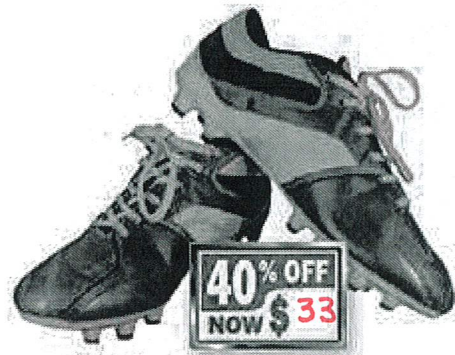
33 IS 60% OF WHAT #?

$$\frac{33}{.6} = \frac{\cancel{.6} \times n}{.6}$$

$$55 = n$$

$$n = 55$$

THE ORIGINAL
PRICE WAS \$55⁰⁰



OYO:) A bracelet costs \$36 after a 25% discount. What is the original price of the bracelet?

Notes:

IF 25% OFF, THEN
75% WAS PAID FOR.

36 IS 75% OF WHAT #?

$$\frac{36}{.75} = \frac{\cancel{.75} \times n}{.75}$$

$$48 = n$$

$$n = 48$$

THE ORIGINAL
PRICE WAS \$48⁰⁰

