## Topic: Percentages of Amounts

## Introduction:

Being able to calculate percentages of certain quantities have many applications, some of which are: calculating sale prices, interest amounts on credit cards and loans, salary deductions or increases in pensions and allowances, to name a few.

## Refresher Video:

https://youtu.be/ty12FGhxQEw

## Summary:

$a \%$ of $b=(a / 100) \times b$

## Example a:

Q: Calculate $35 \%$ of 112 .

A: Replace the 'of' in the question with a multiplication sign ' $\mathbf{x}$ '. In the calculator, this translates to:
' $\mathbf{3 5} \div \mathbf{1 0 0} \times \mathbf{1 1 2}$ =', which gives an answer of $\mathbf{3 9 . 2}$
$a \%$ sale on $b \Leftrightarrow$ you pay: $b-(a / 100)^{*} b$

## Example b:

Q: In a video store, a DVD that sells for BD 15 is marked " $10 \%$ off." What is the sale price of the DVD?

A: The sale price is found by : $15-(10 \div 100 \times 15)=B D 13.5$
Questions:

1) Work out these percentages
(a) $50 \%$ of 280
(b) $25 \%$ of 660
(c) $30 \%$ of 245
2) Maryam gets 6.2 dinars pocket money a week. She spends $15 \%$ of her pocket money on sweets and $35 \%$ on magazines. She saves the rest.
(a) Work out how much she spends on magazines.
(b) Work out how much she saves each week.
3) A CD player originally costs 35 dinars. If the CD player is on $10 \%$ discount. How much would you pay to buy it?
4) A used mobile phone costs 60 dinars. If the seller makes a $40 \%$ discount, how much would the new price be?

## Answers:

1) (a) 140
(b) 165
(c) 73.5
2) (a) 2.17 dinars
(b) 3.1 dinars
3) 31.5 dinars
4) 36 dinars
