Percentage Increase or Decrease

Notes and Examples

Percentage increase includes profit, price increase, VAT, interest etc.
Percentage decrease includes discounts, loss, price decrease etc.

Example 1(Non-calculator)	Example 2 (Calculator)	Example 3(Calculator)
Increase 200 by 30%	Increase 200 by 30%	Decrease 70 by 45%
10% - 20	100 + 30 = 130%	100 - 45 = 55%
10% - 20	130%　= 1.30	55%　= 0.55
10% - 20		
30% - 60	New Value = 200 x 1.30	New Value = 70 x 0.55
	= **260**	= **38.5**
New value = 200 + 60 = **260**		

Exercise

1. **Increase 70 by 35%**	2. **Decrease 120 by 15%**
3. **Increase 125 by 6%**	4. **Decrease 55 by 12%**
5. **What is the selling price of an item that cost £30 for 45% profit?**	6. **How much will you pay for a phone that cost £250 if you get a 15% discount?**
7. **Judy bought an item for £88. How much would she have to sell it for, if she wants to make 37% profit?**	8. **The price of all items were reduced by 70% in a sale. How much would you have to pay for an item costing £125**

Challenge

Jamie borrowed £2500 from a bank. How much would he have to pay back after 6 months if the bank charged 12% interest per year?