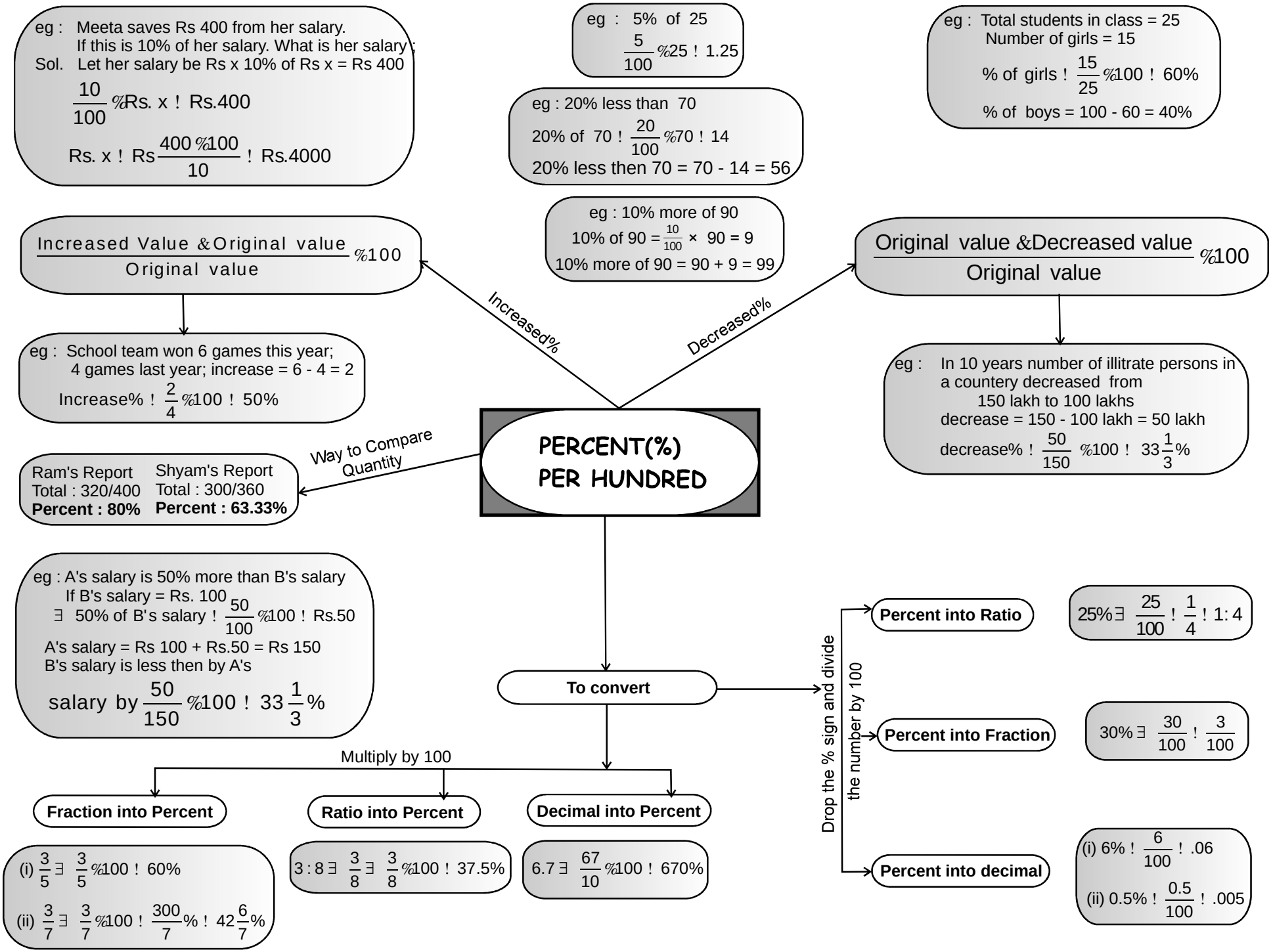
PERCENTAGE


eg : Meeta saves Rs 400 from her salary.
If this is 10% of her salary. What is her salary ;
Sol. Let her salary be Rs x 10% of Rs x = Rs 400
10/100 %Rs. x ! Rs.400
Rs. x ! Rs 400 %100 / 10 ! Rs.4000
eg : 5% of 25
5/100 %25 ! 1.25
eg : 20% less than 70
20% of 70 ! 20/100 %70 ! 14
20% less then 70 = 70 - 14 = 56
eg : Total students in class = 25
Number of girls = 15
% of girls ! 15/25 %100 ! 60%
% of boys = 100 - 60 = 40%
eg : 10% more of 90
10% of 90 = 10/100 × 90 = 9
10% more of 90 = 90 + 9 = 99
Increased Value &Original value / Original value %100
Original value &Decreased value / Original value %100
Increased%
Decreased%
eg : School team won 6 games this year;
4 games last year; increase = 6 - 4 = 2
Increase% ! 2/4 %100 ! 50%
eg : In 10 years number of illitrate persons in a countery decreased from
150 lakh to 100 lakhs
decrease = 150 - 100 lakh = 50 lakh
decrease% ! 50/150 %100 ! 33 1/3 %
PERCENT(%)
PER HUNDRED
Way to Compare Quantity
Ram's Report
Total : 320/400
Percent : 80%
Shyam's Report
Total : 300/360
Percent : 63.33%
eg : A's salary is 50% more than B's salary
If B's salary = Rs. 100
∃ 50% of B's salary ! 50/100 %100 ! Rs.50
A's salary = Rs 100 + Rs.50 = Rs 150
B's salary is less then by A's
salary by 50/150 %100 ! 33 1/3 %
To convert
Multiply by 100
Drop the % sign and divide the number by 100
Fraction into Percent
(i) 3/5 ∃ 3/5 %100 ! 60%
(ii) 3/7 ∃ 3/7 %100 ! 300/7 % ! 42 6/7 %
Ratio into Percent
3 : 8 ∃ 3/8 ∃ 3/8 %100 ! 37.5%
Decimal into Percent
6.7 ∃ 67/10 %100 ! 670%
Percent into Ratio
25% ∃ 25/100 ! 1/4 ! 1: 4
Percent into Fraction
30% ∃ 30/100 ! 3/100
Percent into decimal
(i) 6% ! 6/100 ! .06
(ii) 0.5% ! 0.5/100 ! .005