M8 - 2.7 - Ratios Marbles Notes

You have 3 Blue marbles and 2 Red marbles in a box, a total 5 marbles.

(Blue) (Blue) (Blue) (Red) (Red)
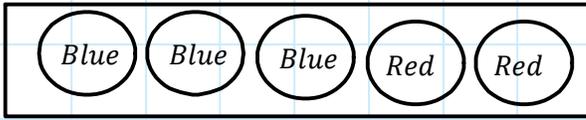
What is the ratio of blue to red marbles?   **What is the ratio of blue to red marbles?**

(Blue) (Blue) (Blue) (Red) (Red)   (Red) (Red) (Blue) (Blue) (Blue)
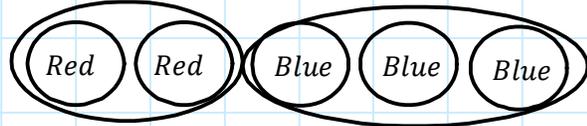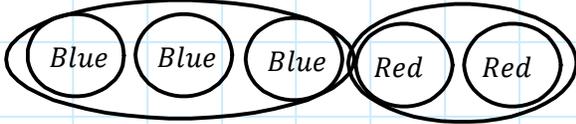
$3\ Blue : 2\ Red$ $2\ Red : 3\ Blue$

$b : r$
$3 : 2$ ($3 : 2$)   Part to Part   ($2 : 3$)

What is the ratio of blue marbles to total marbles?

(Blue) (Blue) (Blue)   (Blue) (Blue) (Blue) (Red) (Red)
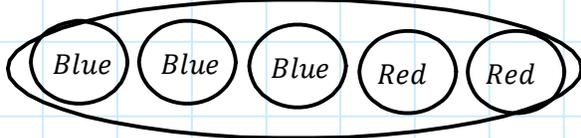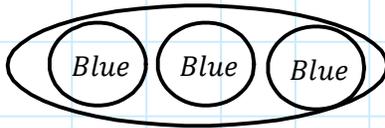
$3\ Blue : 5\ Total$

($3 : 5$)   Part to Total
$r : b : T$
$2 : 3 : 5$

What is the ratio of red marbles to total marbles?

(Red) (Red)   (Blue) (Blue) (Blue) (Red) (Red)
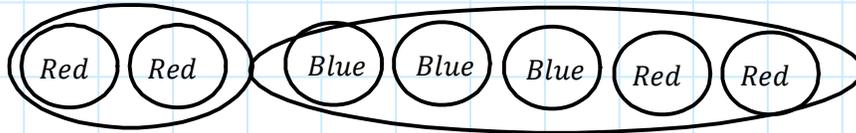
$2\ Red : 5\ Total$

($2 : 5$)

If a larger box has 9 Blue marbles in the same ratio as above how many Red marbles and Total marbles are in the box?

$\times 3 \quad \begin{array}{l} 3\ Blue : 2\ Red \\ 9 : Blue : ?\ Red \end{array} \times 3$ $9\ Blue + 6\ Red = 15\ Marbles$

$2 \times 3 = 6$ There are 15 marbles in the larger box

$6\ Red\ Marbles$

If a larger box has 25 marbles in the same ratio as above how many Red marbles are in the box?