| 2009 | 2010 |
| :--- | :--- |
| Factory A 15\% | Factory A 20\% |
| Factory B 15\% | Factory B 35\% |

If there are currently 45 heavy lifters at Factory $A$ and the company increase it's fleet by $60 \%$, how many total lifters will be at factory A and Factory B after they are redistributed?

## Solution

As in 2009 the Factory A had 45 lifters and it is the $15 \%$ of the total quantity therefore the total quantity was
$45 * \frac{100}{15}=300$ lifters
In 2010 the company increase it's fleet by $60 \%$ and now it has
$300 * 1.6=480$ lifters.
The factories $A$ and $B$ have the $20 \%+35 \%=55 \%$ of the total quantity of lifters and it's $480 * 0.55=264$ lifters.

Answer: 264 lifters.

