Area & Perimeter of ~ Figures

Find the perimeter of the ~ figure.

① $\triangle A \sim \triangle B$
Perimeter of $\triangle A$ is 10in
Scale Factor of A to B is 1:3
Find the Perimeter of $\triangle B$

② rectangle A ~ rectangle B
Perimeter of rect. B is 12m
Scale Factor of A to B is 4:3
Find the Perimeter of rect. A.

Find the area of the ~ figure.

③ $\triangle A \sim \triangle B$
Area of $\triangle A$ is $16 in^2$
Scale Factor of A to B is 2:3
Find the area of $\triangle B$

④ rectangle A ~ rectangle B
Area of rect. B is $18 m^2$
Scale Factor of A to B is 5:3
Find the area of rect. A.

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Answers:

① $\frac{10}{x} = \frac{1}{3}$, Perimeter of $\Delta B = 30in$

② $\frac{4}{3} = \frac{x}{12}$, Perimeter of rect. $A = 16m$

③ $\frac{16}{x} = \frac{4}{9}$, Area of $\Delta B = 36in^2$

④ $\frac{25}{9} = \frac{x}{18}$, Area of rect. $A = 50m^2$