Map Scale Exercises

[1] What is map scale?
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_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

[2] Name the three ways map scale can be illustrated on a map.
(a) ________________________________________________________________
(b) ________________________________________________________________
(c) ________________________________________________________________

[3] Explain what the representative fraction RF $\rightarrow$ 1 : 150,000 means.
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

[4] Use the scale of 1 cm represents 100 km to find the distance between A and B.

(a)  
\[ \begin{array}{c}
A \quad \quad \quad \quad B \\
\end{array} \]
Answer: _______________

(b)  
\[ \begin{array}{c}
A \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad B \\
\end{array} \]
Answer: _______________

(c)  
\[ \begin{array}{c}
A \quad \quad \quad \quad B \\
\end{array} \]
Answer: _______________
[5] Use the scale of \( RF \rightarrow 1 : 250,000 \) to find the distance between \( C \) and \( D \).

(a) Answer: _______________

(b) Answer: _______________

(c) Answer: _______________

[6] Use the scale to the right to find the distance between \( E \) and \( F \).

(a) Answer: _______________

(b) Answer: _______________

(c) Answer: _______________

[7] Change the following scales to direct statements.

(a) \( RF \rightarrow 1 : 1,500,000 \) Answer: ________________

(b) Answer: ________________
[8] Draw a linear scale to show each of the following scales.

(a) 1cm represents 12km

(b) RF $\rightarrow$ 1 : 50,000

(c) RF $\rightarrow$ 1 : 6,000,000

(d) RF $\rightarrow$ 1 : 250,000

[9] Use the scale of RF $\rightarrow$ 1 : 30,000 to find the distance between towns G and H.

(a) Answer: _______________

(b) Answer: _______________

(c) Answer: _______________

[10] Using the following scales calculate the distance from I to J along the line.

(a) 1cm represents 1km

(b) RF $\rightarrow$ 1 : 12,500,000
[11] Change the following linear scales to representative fractions

(a) \hspace{1cm} \text{Answer: } \underline{\hspace{3cm}}

(b) \hspace{1cm} \text{Answer: } \underline{\hspace{3cm}}

(c) \hspace{1cm} \text{Answer: } \underline{\hspace{3cm}}

(d) \hspace{1cm} \text{Answer: } \underline{\hspace{3cm}}

(e) \hspace{1cm} \text{Answer: } \underline{\hspace{3cm}}
[12a] Convert the linear scale to a representative fraction. __________________________

[12b] Convert the line scale to a direct statement. __________________________

[12c] What is the distance from:

(a) A to B? __________________________
(b) B to C? __________________________
(c) C to D? __________________________
(d) D to E? __________________________
(e) E to F? __________________________
(f) A to F? __________________________