

Crack the Secret Lighthouse Code

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Directions: Answer the following questions to decode the secret lighthouse message below.
1. Ponce Inlet's original name until 1927:
2. A Fresnel lens uses this to refract and reflect light: 9 4
3. Someone who runs and maintains a lighthouse:
4. Fuel used to light the lantern before electricity:
5. A large underground tank used to store rain water in:
6. Optical device used in the Ponce Lighthouse:
7. The unique color, design, and shape of a lighthouse:
8. The Ponce Inlet Lighthouse is made of 1 ½ million of these:
9. Lighthouses were built to safely guide these vessels:
10. Took over all U.S. lighthouses in 1939:
2 6 12 5 1 3 14 12 4 3 8 12 2
8 4 17 6 2 6 1 16 11 12 4 11 2 6 12

1 13 4



Crack the Secret Lighthouse Code Solution

Directions: Answer the following questions to decode the secret lighthouse message below.

11. Ponce Inlet's original name until 1927:
$$\frac{M}{1} \stackrel{O}{=} \frac{S}{16} \stackrel{Q}{=} \frac{U}{16} \stackrel{I}{=} \frac{T}{1} \stackrel{O}{=} \frac{I}{N} \stackrel{L}{=} \frac{E}{T}$$

12. A Fresnel lens uses this to refract and reflect light:
$$\frac{P}{9}$$
 $\frac{R}{4}$ $\frac{I}{4}$ $\frac{5}{4}$

13. Someone who runs and maintains a lighthouse:
$$\frac{K}{12}$$
 $\frac{E}{12}$ $\frac{E}{5}$

15. A large underground tank used to store rain water in:
$$\frac{C}{14}$$
 $\frac{I}{5}$ $\frac{I}{14}$ $\frac{E}{2}$ $\frac{R}{N}$

16. Optical device used in the Ponce Lighthouse:
$$\frac{F}{7}$$
 $\frac{R}{E}$ $\frac{E}{5}$ $\frac{N}{N}$ $\frac{E}{8}$ $\frac{L}{8}$ $\frac{E}{N}$ $\frac{N}{5}$

18. The Ponce Inlet Lighthouse is made of
$$1\frac{1}{2}$$
 million of these: $\frac{B}{13}$ $\frac{R}{13}$ $\frac{I}{C}$ $\frac{C}{K}$ $\frac{S}{13}$

20. Took over all U.S. lighthouses in 1939:
$$\frac{C}{O} = \frac{O}{A} = \frac{S}{S} = \frac{T}{I7} = \frac{G}{I7} = \frac{U}{A} = \frac{A}{R} = \frac{D}{I7}$$