



PROBLEM SOLVING - TALLEST LIGHTHOUSES (METRIC)

Here is a selection of some of the tallest lighthouses in the world today.

| Lighthouse | Height (m) | Order of height |
|-------------------------|------------|-----------------|
| Ile Vierge | 83 | |
| Jeddah Light | | 1 |
| Lighthouse of Genoa | | |
| Perry Memorial Monument | 107 | |
| Phare de Gatteville | 75 | |
| Yokohama Marine Tower | | |

1) Use these facts to complete the table above:

- The Lighthouse of Genoa is 6m lower than the Ile Vierge.
- The Jeddah Light is 26m higher than the Perry Memorial Monument.
- The Yokohama Marine Tower is 18m higher than the Ile Vierge.

2) Fill in the order of height from 1 to 6, with 1 being the tallest.

3) How much taller is the Perry Memorial Monument than the Phare de Gatteville? _____ m

4) How much shorter is the Ile Vierge than the Jeddah Light? _____ m

5) Tyger says "The Jeddah Light is more than double the height of the shortest tower." Is he correct? _____

6) Which tower is closest to 90m in height? _____

7) Tyger says "If you put three Yokohama towers on top of each other, it would make about 300m." Is he correct? Why?





PROBLEM SOLVING - TALLEST LIGHTHOUSES (METRIC) ANSWERS

| Lighthouse | Height (m) | Order of height |
|-------------------------|------------|-----------------|
| Ile Vierge | 83 | 4 |
| Jeddah Light | 133 | 1 |
| Lighthouse of Genoa | 77 | 5 |
| Perry Memorial Monument | 107 | 2 |
| Phare de Gatteville | 75 | 6 |
| Yokohama Marine Tower | 101 | 3 |

1) Use these facts to complete the table above:

- The Lighthouse of Genoa is 6m lower than the Ile Vierge.
- The Jeddah Light is 26m higher than the Perry Memorial Monument.
- The Yokohama Marine Tower is 18m higher than the Ile Vierge.

2) Fill in the order of height from 1 to 6, with 1 being the tallest.

3) How much taller is the Perry Memorial Monument than the Phare de Gatteville? **32m**

4) How much shorter is the Ile Vierge than the Jeddah Light? **50m**

5) Tyger says "The Jeddah Light is more than double the height of the shortest tower." Is he correct? **$75 \times 2 = 150\text{m}$. Jeddah = 133m. He is wrong!**

6) Which tower is closest to 90m in height? **Ile Vierge (7m away)**

7) Tyger says "If you put three Yokohama towers on top of each other, it would make about 300m." Is he correct? **$101\text{m} \times 3 = 303\text{m}$. He is correct.**