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Note that all questions refer to the northern hemisphere.

1. How many days per year do sunrays hit the north side of a building?

2. How many days each year does the sun rise due east and set due west?

3. How many days per year are there 12 hours of daylight and 12 hours of darkness?

Is that true for all degrees of latitude? What are the exceptions?

4. How many degrees north of east does the sun rise on June 21?

5. What is the furthest north in degrees that the sun ever rises in the northern hemisphere? Where?

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6. How far south do you have to go so that the sun is directly overhead on June 21 at 12 noon?

7. Does the sun ever rise due south anywhere in the northern hemisphere?

Where and when?

8. At the equator, is it more important to shade the south wall or the north wall?

14. What is the best shading system for north walls? (Circle answer)

- a) Vertical fins b) Horizontal overhangs
- c) Combination of a & b

15. A window has an overhang that is as wide as the window and completely shades it on March 21 at noon. How long is the window completely shaded before being outflanked by the sun?



































