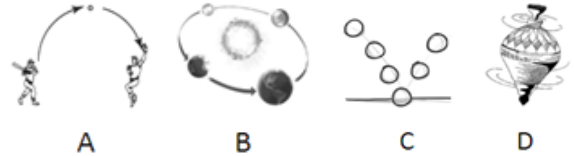



1. Which illustration demonstrates **ROTATION**?   D  

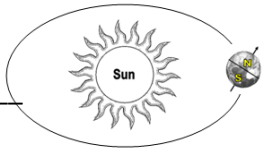
2. Which illustration demonstrates **REVOLUTION**?   B  


3. Which illustration demonstrates **ORBIT**?   B  

4. Which illustration demonstrates **SPIN**?   D  



5. How long does it take for the **Earth to rotate (spin) one time**?   24 Hours   

6. How long does it take for the **Earth to revolve around the Sun** one time?   365 ¼ Days   

7. How long does it take for the **Moon to revolve around the Earth** one time?   29 Days   

<b>1 day (24 hours)</b>
<b>7 days</b>
<b>29 days</b>
<b>365 ¼ days</b>
<b>March 21</b>
<b>June 21</b>
<b>Sept 21</b>
<b>Dec 21</b>

8. Which day of the year is daylight the longest in the **northern** hemisphere?   June 21  

9. Which day of the year is daylight the shortest in the **northern** hemisphere?   Dec 21  

10. Which day of the year is daylight the longest in the **southern** hemisphere?   Dec 21  

11. Which day of the year is daylight the shortest in the **southern** hemisphere?   June 21  

12. Which day(s) of the year is daylight and night equal?   March 21 & Sept 21  

13. What makes the sun rise and set?   Rotation of the Earth  

14. What makes the moon rise and set?   Rotation of the Earth  

15. What is the **Summer Solstice** and when does it occur?   June 21, When the NH is tilted toward the sun, First day of summer, when days are longer and night are shorter.  

16. What is the **Winter Solstice** and when does it occur?   Dec 21, When the NH is tilted away from the sun, First day of winter, when days are short and nights are long.  

17. What is the **Vernal Equinox** and when does it occur?   March 21, Neither Hemisphere is tilted toward the sun, First day of spring, Equal day and night.  

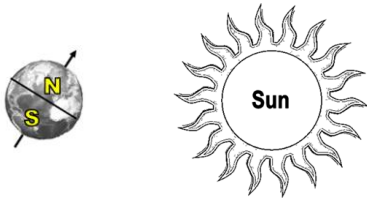
18. What is the **Autumnal Equinox** and when does it occur?   Sept 21, neither hemisphere is tilted toward the sun, First day of fall, Equal day and night.  

**MORE ON BACK**

Use **SPRING, SUMMER, FALL, and WINTER** seasons to answer the following questions.

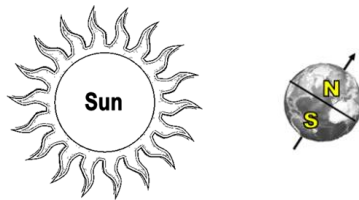
19. In the illustration below, which season best describes the Southern Hemisphere?

Winter



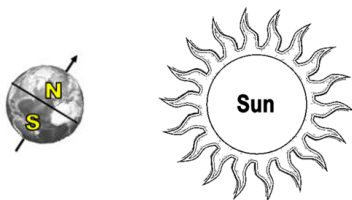
20. In the illustration below, which season best describes the Northern Hemisphere?

Winter



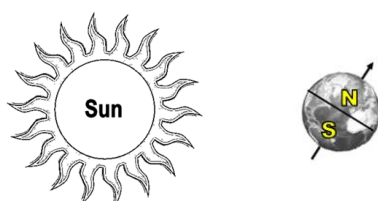
21. In the illustration below, which season best describes the Northern Hemisphere?

Summer



22. In the illustration below, which season best describes the Southern Hemisphere?

Summer



23. If it is summer in the Northern Hemisphere, what season is it in the Southern Hemisphere?

- A. Spring
- B. Summer
- C. Fall
- D. Winter

24. If it is spring in the Northern Hemisphere, what season is it in the Southern Hemisphere?

- A. Spring
- B. Summer
- C. Fall
- D. Winter

25. If it is January, what season is it in the Northern Hemisphere?

- A. Spring
- B. Summer
- C. Fall
- D. Winter

26. If it is June, what season is it in the Southern Hemisphere?

- A. Spring
- B. Summer
- C. Fall
- D. Winter

27. If it is December, what season is it in the Southern Hemisphere?

- A. Spring
- B. Summer
- C. Fall
- D. Winter

28. If the Northern Hemisphere is tilted away from the sun, what season is it in the Northern Hemisphere?

- A. Spring
- B. Summer
- C. Fall
- D. Winter