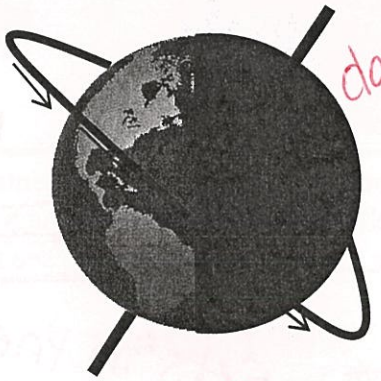
Guided Practice — power up STAAR to science — Readiness Standard 5.8.C

Name _____ Date _____

1. Which of the following causes the day and night cycle?

   A. rotation of the moon about 28 days
   B. rotation of the Earth day & night
   C. rotation of the sun no cycle on Earth
   D. the seasons tilt of Earth's axis

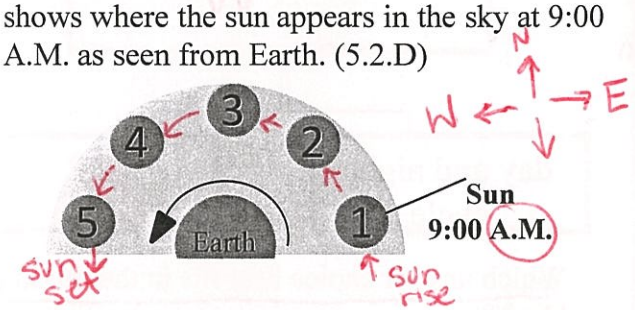
2. Part of the surface of the Earth rotates from daylight, to darkness, then back into day light. How long does it take the Earth to go through this cycle?



day/night cycle

   F. 28 days lunar cycle
   G. 365 days revolution
   H. 24 hours rotation
   J. 24 days

3. Students are investigating the apparent movement of the sun across the sky. The teacher shows where the sun appears in the sky at 9:00 A.M. as seen from Earth. (5.2.D)



Which number in the picture above represents where the sun most likely appears in the sky at noon?

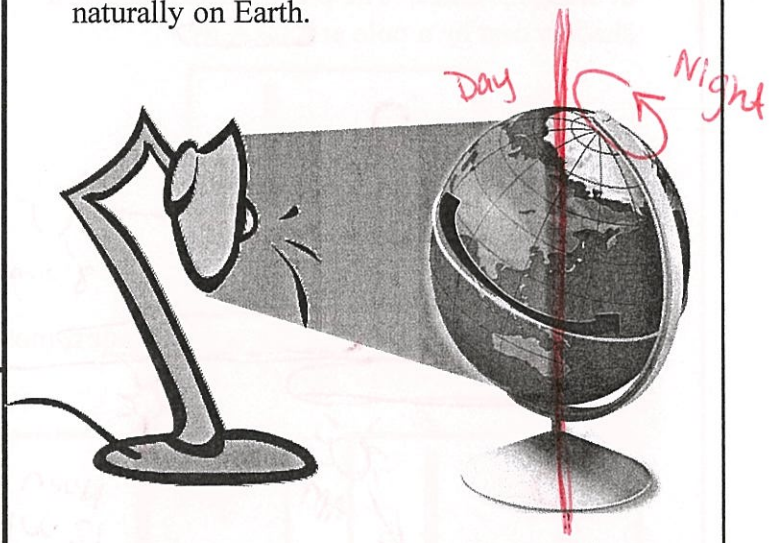
   A. 2 AM
   B. 3 NOON 12:00 PM
   C. 4 PM
   D. 5 PM

4. The science teacher leaves her house every morning at 7:00 A.M. On very sunny days the sun shines brightly in her eyes, making it hard to see while driving. In which direction is the science teacher driving at 7:00 A.M.? (5.2.D)

   F. East
   G. West
   H. ~~North~~
   J. ~~South~~

sets in the west
rises in the East

5. A teacher demonstrates the day and night cycle to a group of students using a globe and a lamp. Students are asked to write a valid conclusion about how the day and night cycle occurs naturally on Earth.



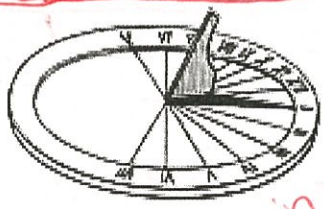
Which student's conclusion best explains the day and night cycle?

   A. The sun rotates on its axis once approximately every 30 days. No cycle on Earth
   B. The sun revolves around the Earth approximately every 365 days. Earth orbits Sun
   C. The Earth rotates on its axis once approximately every 24 hours. = 1 day
   D. The moon revolves around the Earth once approximately every 28 days. Moon phases = Lunar cycle

Independent Practice — power up to STAAR science — **Readiness Standard 5.8.C**

Name _____ Date _____

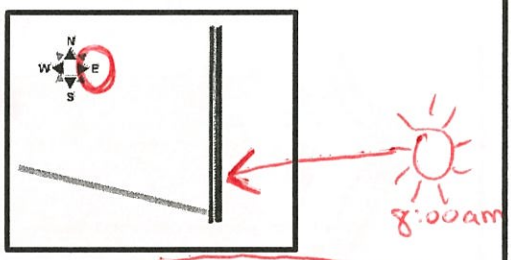
1. Students observe the sun appearing to move across the sky by using a sundial to observe the shadow from sunrise to sunset. In which direction does the sun appear to move across the sky?



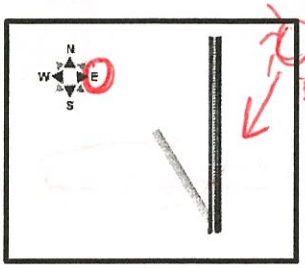
F. West to East
G. North to South
H. East to South
J. East to West

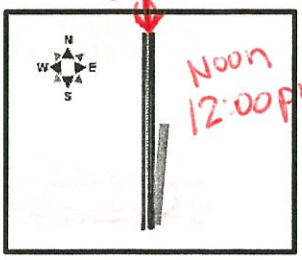
Sets in the West
Rises in the East
W ← → E

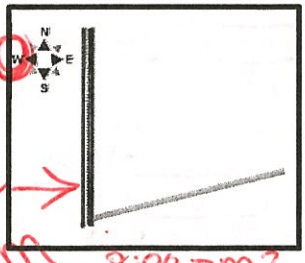
2. Objects cast shadows on sunny days and change at different times. The picture below shows a shadow cast by a pole at 8:00 A.M.

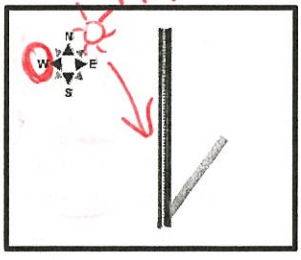


Which picture shows how the pole's shadow most likely looked at 4:00 P.M.? (5.2.D)

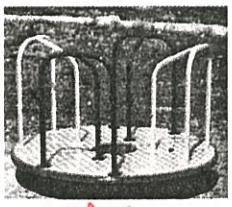
A.


B.


C.


D.


3. All of the following pictures are like Earth's rotation EXCEPT—

F.

A tis

G.

A tis

H.

A tis

J.

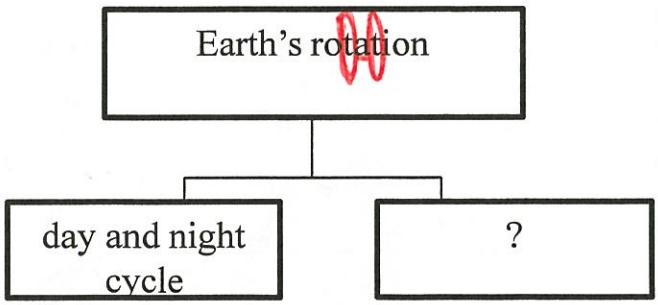
NO A tis

4. As a homework assignment, students are asked to watch the sunset at home. Which direction will the students need to face to see the sunset at home?

A. South
B. West
C. North
D. East

Sets in the West
rises in the East

5. Examine the chart below.



Which answer choice best fits in the missing blank?

F. high and low tides moon's orbit
G. gravitational pull Earth's mass
H. moon phases moon's orbit
J. apparent movement of the Sun across the sky Earth's rotation