Section 3 – Tides, the Sun, and the Moon

- 1. What are *tides*?
- 2. What two forces influence tides?

THE LURE OF THE MOON

Write the letter of the correct answer in the space provided.

- 3. The tides are influenced by
 - a. gravity.
 - b. seasons.
 - c. weather.
 - d. climate.
- 4. The moon's pull is strongest at the place on Earth that is
 - a. opposite the moon.
 - b. directly facing the moon.
 - c. opposite the sun.
 - d. directly facing the sun
 - 5. The pull of the moon on the ocean causes water to bulge and create
 - a. waves.
 - b. the rotation of Earth.
 - c. high tides.
 - d. gravity.
- 6. The two factors that determine when tides occur are the rotation of Earth and the
 - a. rotation of the moon.
 - b. revolution of the moon.
 - c. rotation of the sun.
 - d. location of the sun.
 - 7. How long does it take for a spot on Earth that is facing the moon to rotate so that it is facing the moon again?
 - a. 24 h and 5 mc. 12 h and 50 mb. 12 h and 5 md. 24 h and 50 m
 - 5 m d. 24 h and

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TIDAL VARIATIONS			
8. The difference in levels of ocean w	ater at high tic	le and low tide is	called
a(n)			
9. Tides that occur when the sun, moc	on, and Earth a	re aligned are	
tides.			
10. Tides with the smallest daily tidal r	ange are		tides.
TIDES AND TOPOGRAPHY			
11. In your own words, what is a <i>tidal</i>	bore?		
12. What place on Earth has the greates	st tidal range?		
13. At what letters would we see Sprir	ng tides?	Neap tide	s?
Highest high tides? Lo	west high tide	s?	
	Sun		
ANe	w moon		
		ХВ	
First quarter moon	Earth	Third qua	arter moon
X		1	
D	_ 🔨	/	
Fi	ull moon	C	