

Exercises

1. What fractional part of a circle do each of the following degree measurements represent?

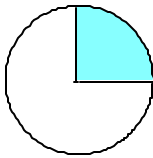
- a. 45° b. 270° c. 150° d. -180° e. -330°
f. 0° g. 360° h. 450° i. -405° j. -225°

2. What degree measure is determined by the following parts of a circle?

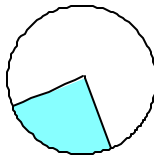
- a. $1/2$ b. $1/3$ c. $1/6$ d. $1/12$ e. $3/4$
f. $2/3$ g. $7/9$ h. $1\ 1/3$

3. Which of the following angles measures 90° ?

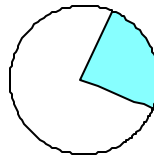
a.



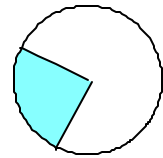
b.



c.



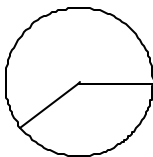
d.



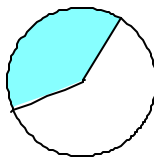
4. Which of the above are right angles? Why?

5. Which of the following angles measure 120° ? Why?

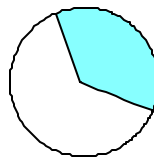
a.



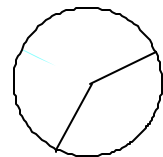
b.



c.



d.



6. The earth rotates on its axis every twenty-four hours. How far (in degrees) does it rotate in 12 hours? In 1 hour? In 7 days?

7. Using an atlas or globe determine the approximate latitude and longitude of the following cities:

	<u>Latitude</u>	<u>Longitude</u>
a. London, England	_____	_____
b. Paris, France	_____	_____
c. Beijing, China	_____	_____
d. Washington, D.C.	_____	_____
e. Los Angeles, California	_____	_____
f. Sydney, Australia	_____	_____
g. Lima, Peru	_____	_____
h. Cape Town, South Africa	_____	_____
i. Anchorage, Alaska	_____	_____

8. a. Which of the above cities is closest to the North Pole?
b. Which of the above cities is closest to the South Pole?
c. Which of the above cities is closest to the Equator?
d. Which of the above cities is closest to Royal Greenwich, England?