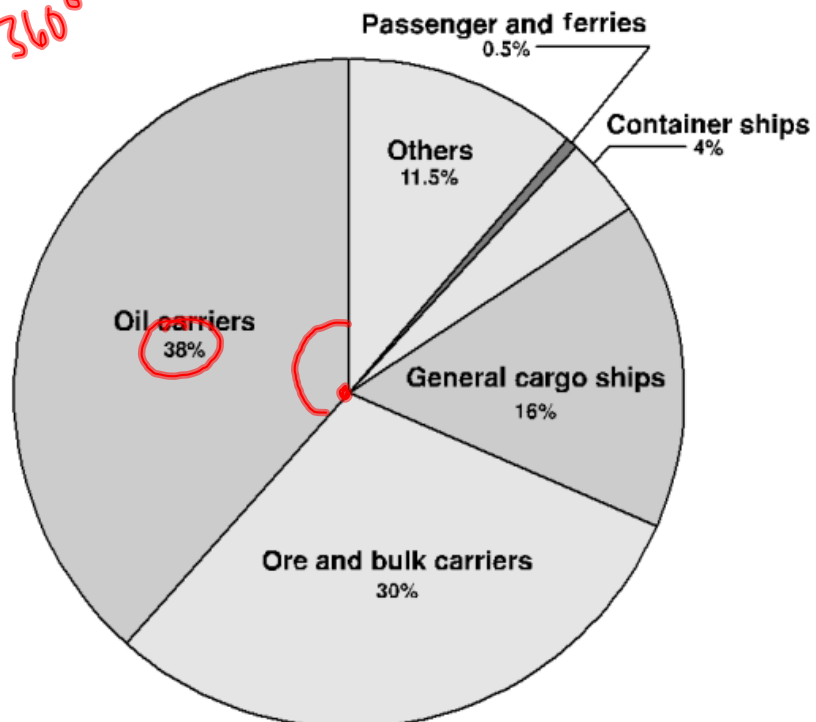


Sec. 7.9 - Circle Graphs

Circle Graph:

- a graph of data where a circle represents the whole
- each wedge, or sector, in the circle is part of the whole
- the total is 100%
- reminder- there is 360° in a circle

38% of 360°



World shipping 1989
Types of vessel by dead weight tonnage

Constructing a Circle Graph

- 1) Add to find the total space shuttle expenditures.
- ✂ 2) For each central angle, set up a proportion to find the angle measure.
- 3) Draw a circle. Draw the central angles using the measures found in step 2. Label each section.

NASA Space Shuttle Expenditures

| Category | Cost (millions of dollars) |
|------------|-------------------------------|
| Orbiter | 698.8 |
| Propulsion | 1053.1 |
| Operations | 738.8 |
| + Upgrades | 488.8 |

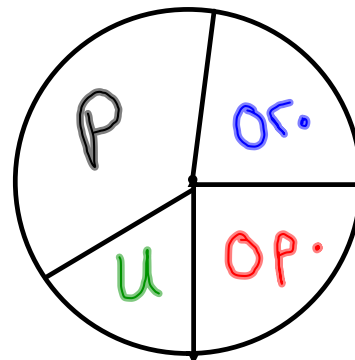
① Total = 2979.5

Or: $\frac{698.8}{2979.5} = \frac{X}{360}$

$X = 84^\circ$ ✓

Op: $\frac{738.8}{2979.5} = \frac{a}{360}$

$a = 89^\circ$



② $\frac{\text{part}}{\text{whole}} = \frac{\text{part}}{\text{whole}}$

P: $\frac{1053.1}{2979.5} = \frac{y}{360}$

$y = 127^\circ$

$U: 60^\circ$

Homework

**p.390, # 1-6 all, 15-18 all,
22, 34, 36, 38, 40, 44**