## Circles and Volumes Review Two

*Please show all work including formula, substitution, math steps and correct units!*

**1. Radius, Diameter and Circumference:** Remember when identifying the formula you need to use, look at what the missing part of the question is.
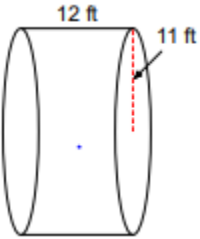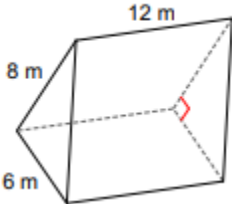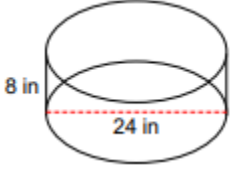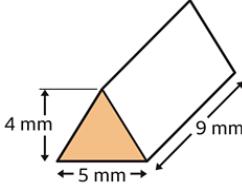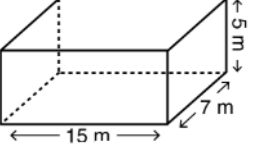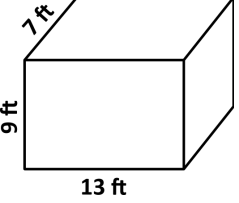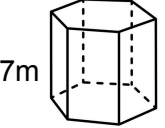
| | |
|---|---|
| r = ?        when      d = 41m | d = ?          when          r = 76 cm |
| d = ?          when        r = 5 km | r = ?        when      d = 425 in |
| C = ?        when      d = 15m | C = ?        when      r = 28km |
| C = ?        when      r = 27cm | C = ?        when      d = 4m |

**2. Area of Circles:** Remember to always look to see if you have a radius first.  If not you will have to calculate one first!  Remember something like $(6)^2$ means 6x6 or 36.

| | |
|---|---|
| A = ?        when      r = 7cm | A = ?          when        d = 0.8m |

| A = ?        when      d = 90cm | A = ?        when      r = 3km |
|---|---|
|  |  |

**3. Volume**: Remember to pick your formula based on the shape.  Also all volumes are cubed.

| | |
|---|---|
| 12 ft, 11 ft | 12 m, 8 m, 6 m |
| 8 in, 24 in | 4 mm, 5 mm, 9 mm |
| 5 m, 7 m, 15 m | 7 ft, 9 ft, 13 ft |
| Abase = 10m²  7m | Abase = 55cm²  14cm |