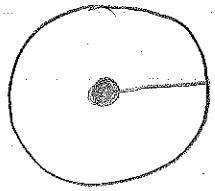
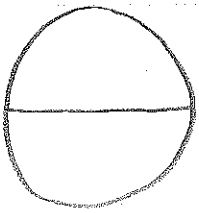
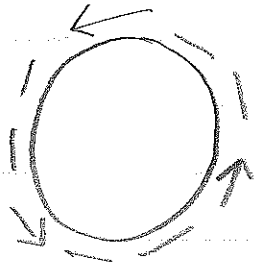
circles



radius: the distance from the center of the circle to any point on the outside.



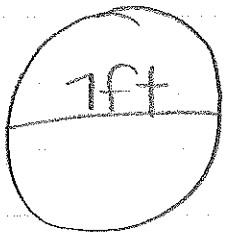
diameter: the distance across the circle through the center.



circumference: the distance around the outside of the circle.

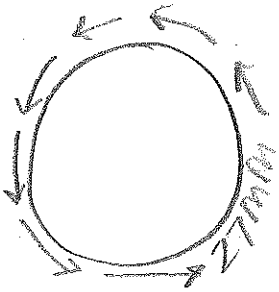
$C = \pi d$ $C = 2\pi r$

$\pi \approx 3.14 / \frac{22}{7}$



$r = 3.5ft$
$d = 1ft$
$C = \pi d$
$C = 3.14 \cdot 7$
$C = 21.98ft$

3.14
X 7

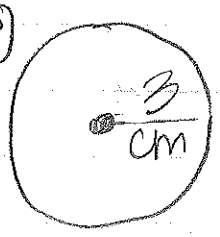


$r \approx 4.5mm$
$d \approx 9mm$
$C = 27mm$

$C \approx \pi d$
$\frac{27}{3} \approx \frac{3d}{3}$
$9 \approx d$

Area of Circle $A = \pi r^2$

(P)



(F) $A = \pi r^2$

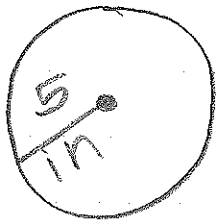
(P) $A = 3.14 \cdot 3^2$

(S) $A = 3.14 \cdot 9$

$A = 28.26 cm^2$

$$\begin{array}{r} 3.14 \\ \times\ 9 \\ \hline \end{array}$$

(P)



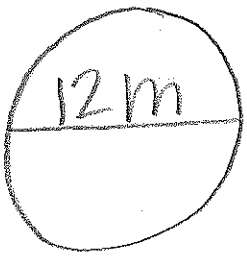
(F) $A = \pi r^2$

(P) $A = 3.14 \cdot 5^2$

(S) $A = 3.14 \cdot 25$

$A = 78.5 in^2$

(P)



(F) $A = \pi r^2$

(P) $A = 3.14 \cdot 6^2$

(S) $A = 3.14 \cdot 36$

$A = 113.04 m^2$

circumference

(F) $C = \pi d$

(P) $C = 3.14 \cdot 12$

(S) $C = 37.68 m$

$$\begin{array}{r} 3.14 \\ \times\ 12 \\ \hline 628 \\ 3140 \\ \hline 37.68 \end{array}$$

classwork 3/18 *HW if NOT completed

Area & Perimeter of all Shapes

Shape triangle

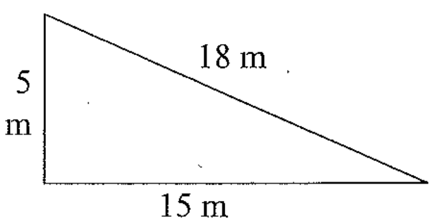
Formula $A = \frac{1}{2}bh$

Plug in for variables $A = \frac{1}{2} \cdot 15 \cdot 5$

$A = 7.5 \cdot 5$

$A = 37.5$

1)Area = $37.5 m^2$
2) Perimeter = 38 m

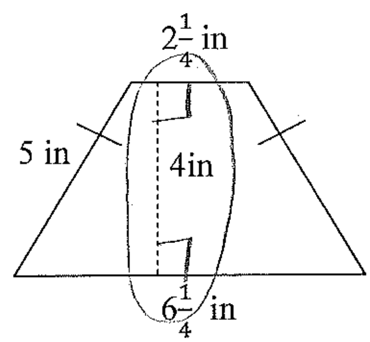


Shape ____________

Formula ____________

Plug in for variables ____________

3) Area = ________
4) Perimeter = ________

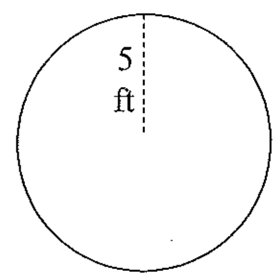


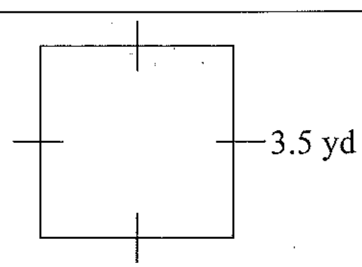
Shape ____________

Formula ____________

Plug in for variables ____________

5)Area = ________
6) Circumference = ____



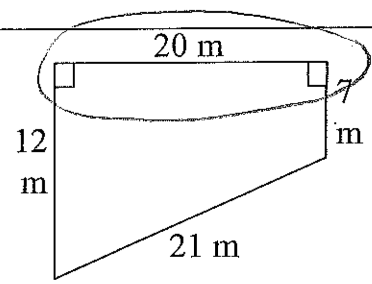


Shape ____________

Formula ____________

Plug in for variables ____________

7) Area = ________
8) Perimeter = ________

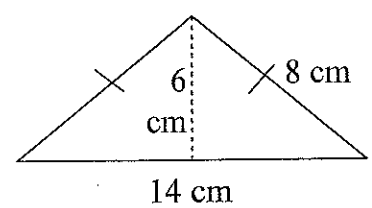


Shape ____________

Formula ____________

Plug in for variables ____________

9) Area = ________
10)Perimeter = ________



Shape ____________

Formula ____________

Plug in for variables ____________

11) Area = ________
12) Perimeter = ________

* bases are parallel - trapezoid *

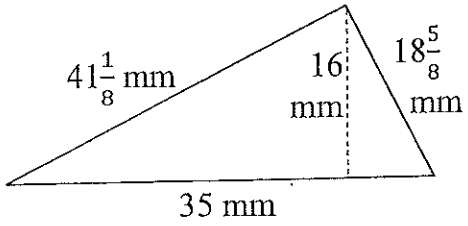
* base & height form a right angle. *

Shape _____

Formula _____

Plug in _____
for variables

13) Area = _____

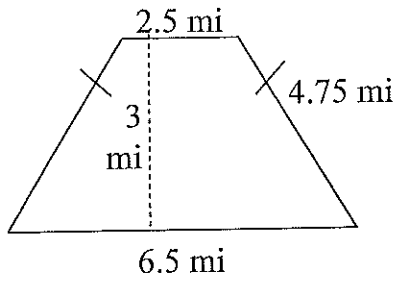


Shape _____

Formula _____

Plug in _____
for variables

14) Area = _____



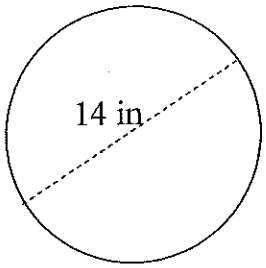
Shape _____

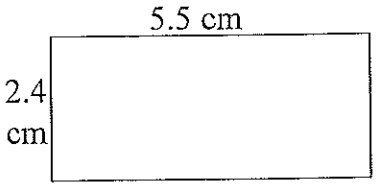
Formula _____

Plug in _____
for variables

15) Area = _____

16) Circumference = _____



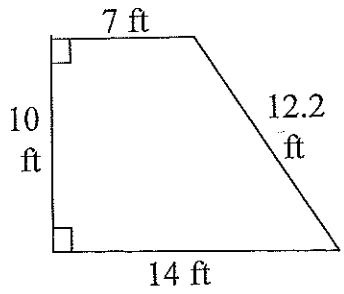


Shape _____

Formula _____

Plug in _____
for variables

17) Area = _____

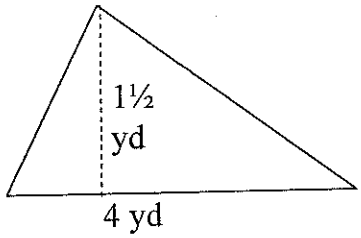


Shape _____

Formula _____

Plug in _____
for variables

18) Area = _____



Shape _____

Formula _____

Plug in _____
for variables

19) Area = _____