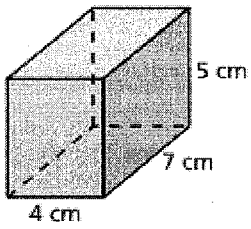
NAME: _____ DATE: _____

SURFACE & VOLUME PERIOD: _____

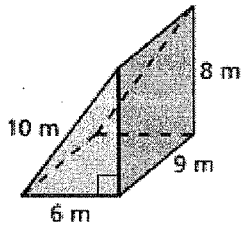
Review

Find the surface area of the prism.

1.

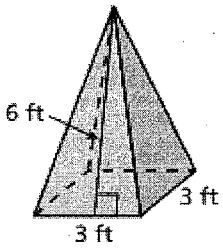


2.

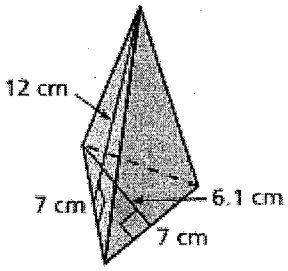


Find the surface area of the regular pyramid.

3.

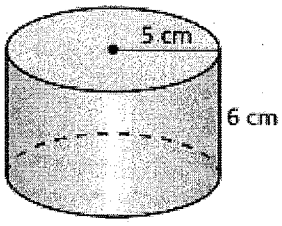


4.

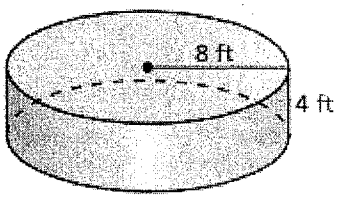


Find the surface area of the cylinder. Round your answer to the nearest tenth.

5.

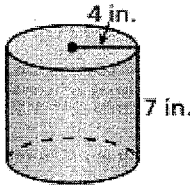


6.

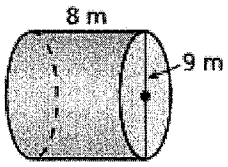


Find the lateral surface area of the cylinder. Round your answer to the nearest tenth.

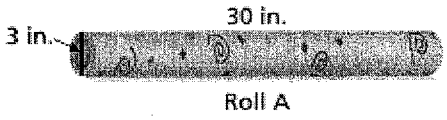
7.



8.



9.



Find the lateral surface area of the roll of wrapping paper above. Round your answer to the nearest tenth.

Show work below.

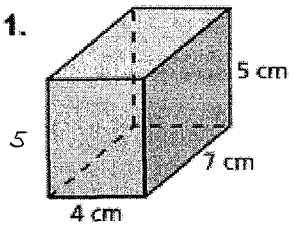
NAME: Key DATE: _____

SURFACE & VOLUME PERIOD: _____

REVIEW

Find the surface area of the prism.

1.



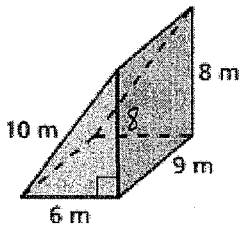
$A = lw(2)$
$A = 5(4)(2)$
$A = 40$

$A = lw(2)$
$A = 5(7)(2)$
$A = 70$

$A = lw(2)$
$A = 4(7)(2)$
$A = 56$

$SA = 40 + 70 + 56$
$SA = 166\ cm^2$

2.



$A = \frac{1}{2}bh(2)$
$A = \frac{1}{2}(6)(8)2$
$A = 48$

$A = lw$
$A = 10(9)$
$A = 90$

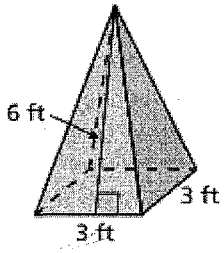
$A = lw$
$A = 8(9)$
$A = 72$

$A = lw$
$A = 9(6)$
$A = 54$

$SA = 90 + 48 + 72 + 54$
$SA = 264\ m^2$

Find the surface area of the regular pyramid.

3.

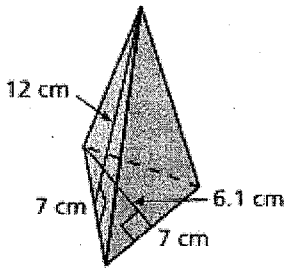


$A = s^2$
$A = 3^2$
$A = 9$

$A = \frac{1}{2}bh(4)$
$A = \frac{1}{2}(6)(3)(4)$
$A = 36$

$SA = 9 + 36$
$SA = 45\ ft^2$

4.



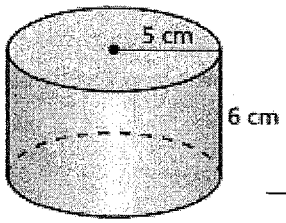
$A = \frac{1}{2}bh$
$A = \frac{1}{2}(7)(6.1)$
$A = 21.35$

$A = \frac{1}{2}bh(3)$
$A = \frac{1}{2}(7)(12)(3)$
$A = 126$

$SA = 21.35 + 126$
$SA = 147.35\ cm^2$

Find the surface area of the cylinder. Round your answer to the nearest tenth.

5.

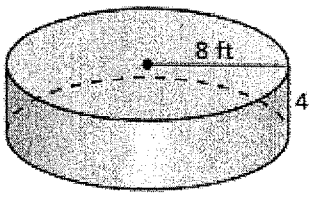


$A = \pi r^2(2)$
$A = \pi(5)^2(2)$
$A = 157.1$

$A = 2\pi rh$
$A = 2\pi(5)(6)$
$A = 188.5$

$SA = 157.1 + 188.5$
$SA = 345.6\ cm^2$

6.



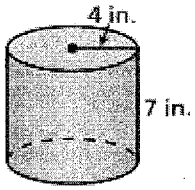
$A = \pi r^2(2)$
$A = \pi(8)^2(2)$
$A = 402.1$

$A = 2\pi rh$
$A = 2\pi(8)(4)$
$A = 201.1$

$SA = 402.1 + 201.1$
$SA = 603.2\ ft^2$

Find the lateral surface area of the cylinder. Round your answer to the nearest tenth.

7.



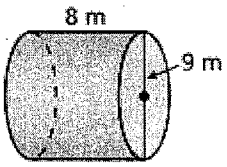
Lateral surface = $2\pi r h$

$= 2\pi(4)(7)$

$= 56\pi$

$= 175.9\ in^2$

8.



$d = 9$

$r = 4.5$

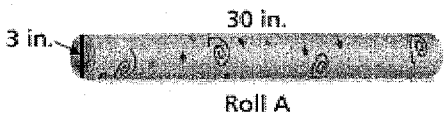
Lateral surface = $2\pi r h$

$= 2\pi(4.5)(8)$

$= 72\pi$

$= 226.2\ m^2$

9.



$r = 1.5$

Find the lateral surface area of the roll of wrapping paper above. Round your answer to the nearest tenth.

Show work below.

Lateral surface = $2\pi r h$

$= 2\pi(1.5)(30)$

$= 90\pi$

$= 282.7\ in^2$