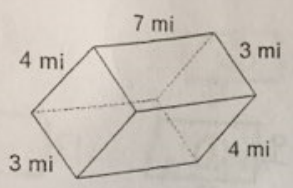
·urface Area Review

·ind the surface area of each figure. Round to the r

1)



7, 3, 4

$\boxed{2}$ $\boxed{2}$ $\boxed{2}$

$A = b \times h$	$A = b \times h$	$A = b \times h$
$A = \underline{3} \times \underline{7}$	$A = \underline{3} \times \underline{4}$	$A = \underline{4} \times \underline{7}$
$A = \underline{21}$	$A = \underline{12}$	$A = \underline{28}$
$2 \times A_1 = \underline{42}$	$2 \times A_2 = \underline{24}$	$2 \times A_3 = \underline{56}$

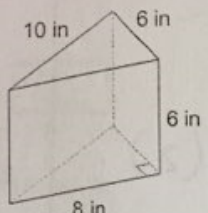
$TSA = \underline{42} + \underline{24} + \underline{56} = \underline{122\,mi^2}$

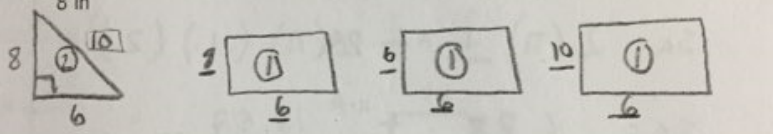
Name _____

Date _____

rest tenth.

Triangular Prism





$A = \frac{b \times h}{2}$

$A = \frac{8 \times 6}{2}$

$A = 24$

$A = b \times h$

$A = 8 \times 6$

$A = 48$

$A = b \times h$

$A = 10 \times 6$

$A = 60$

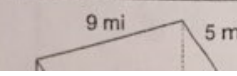
$A = b \times h$

$A = 6 \times$

$A = 36$

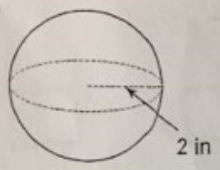
$2 \times A = 48$

$TSA = 48 + 48 + 60 + 36 = 192$ in



Same as

$T_{SA} = \underline{42} + \underline{24} + \underline{56} = \underline{122\,mi^2}$



Sphere

$A = 4\pi r^2$

$A = 4\pi (2)^2$

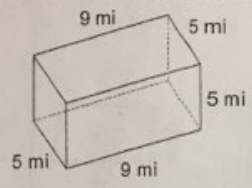
$A = 4\pi \times (4)$

$A = \underline{50.3\,in^2}$

$2 \times A = 48$

$T_{SA} = 48 + 48 + 60 + 36 = 192 \text{ in}^2$

4)



9, 5, 5

Same as #1

9 ② 5

$A = b \times h$

$A = 9 \times 5$

$A = 45$

$2 \times A = 90$

9 ② 5

$A = b \times h$

$A = 9 \times 5$

$A = 45$

$2 \times A = 90$

5 ② 5

$A = b \times h$

$A = 5 \times 5$

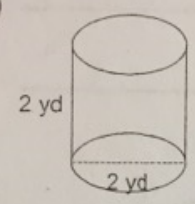
$A = 25$

$2 \times A = 50$

$T_{SA} = 90 + 90 + 50$

$= 230 \text{ mi}^2$

5)



Cylinder

$r = 1\ yd$

$h = 2\ yd$

$SA = 2\pi r^2 + 2\pi r h$

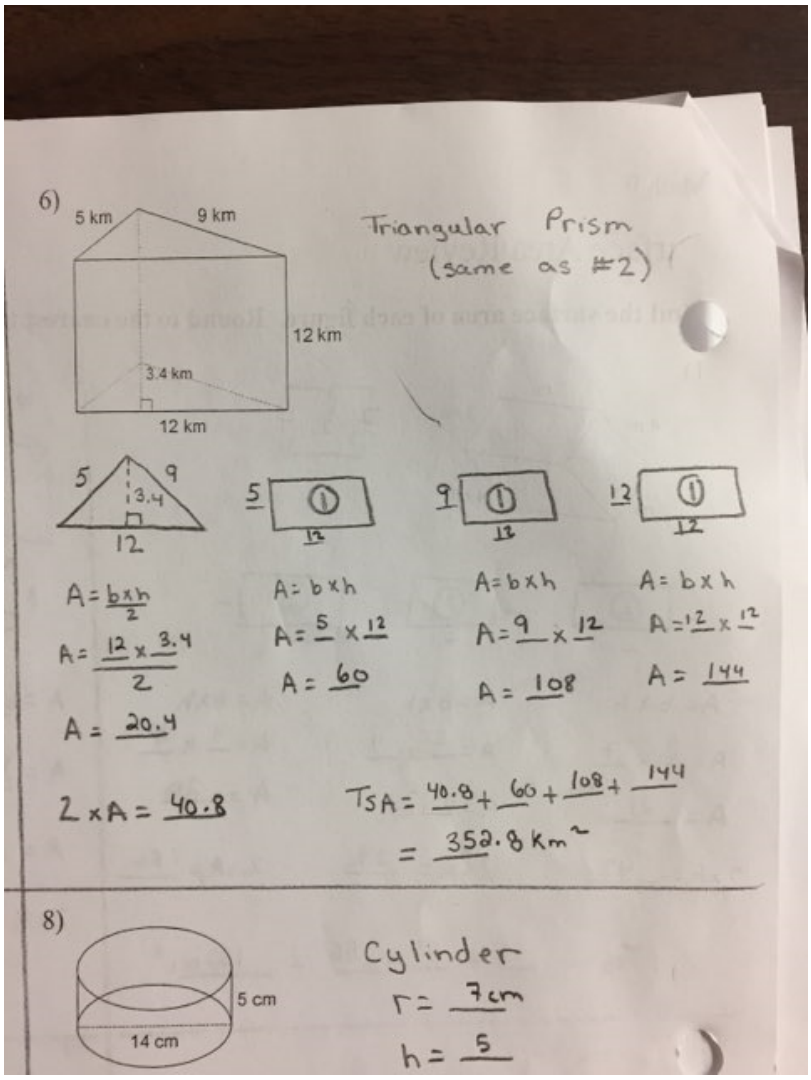
$SA = 2(\pi)(1)^2 + 2(\pi)(1)(2)$

$SA = 2(\pi)1 + 2(\pi)(1)(2)$

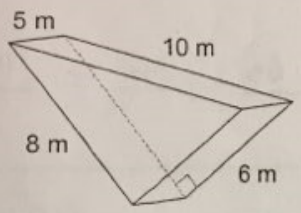
$SA = 6.28 + 12.57$

$SA = 18.8\ yd^2$

7)

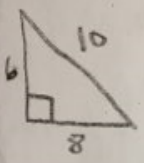

6)
5 km
9 km
12 km
3.4 km
12 km
Triangular Prism
(same as #2)
5
9
3.4
12
5
12
9
12
12
12
A = b x h / 2
A = 12 x 3.4 / 2
A = 20.4
2 x A = 40.8
A = b x h
A = 5 x 12
A = 60
A = b x h
A = 9 x 12
A = 108
A = b x h
A = 12 x 12
A = 144
TSA = 40.8 + 60 + 108 + 144
= 352.8 km²
8)
5 cm
14 cm
Cylinder
r = 7cm
h = 5

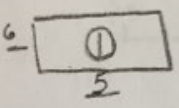
7)

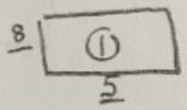


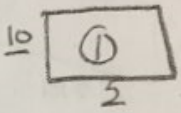
Triangular Prism

8)









$A = \frac{b \times h}{2}$ $A = b \times h$ $A = b \times h$ $A = b \times h$

$= \frac{8 \times 6}{2}$ $A = 6 \times 5$ $A = 8 \times 5$ $A = 10 \times 5$

$A = 24$ $A = 30$ $A = 40$ $A = 50$

$2 \times A = 48$

$T_{SA} = 48 + 30 + 40 + 50$

$= 168\ m^2$

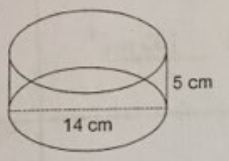
A = 20.4

2 x A = 40.8

TSA = 40.8 + 60 + 108 + 144

= 352.8 km²

8)



Cylinder

r = 7 cm

h = 5

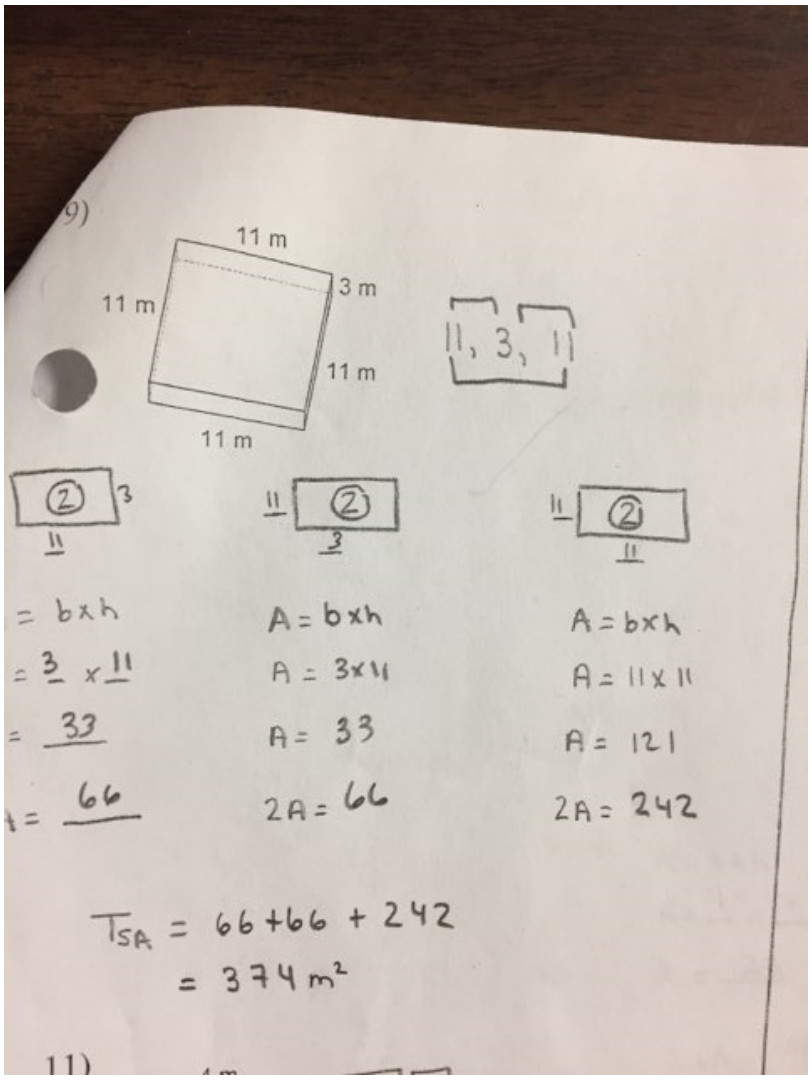
$SA = 2\pi r^2 + 2\pi rh$

$SA = 2(\pi)(7)^2 + 2(\pi)(7)(5)$

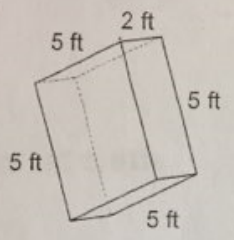
$SA = 2(\pi)(49) + 2(\pi)(7)(5)$

SA = 307.72 + 219.8

SA = 527.52 cm²


9)
11 m
11 m
3 m
11 m
11 m
11, 3, 11
= bxh
= 3 x 11
= 33
= 66
A = bxh
A = 3x11
A = 33
2A = 66
A = bxh
A = 11x11
A = 121
2A = 242
TSA = 66+66 + 242
= 374 m²
11)

10)



5, 2, 5

5 (2) 5

2 (2) 5 Same 2 (2) 5

A = b x h

A = 5 x 5

A = 25

2A = 50

A = b x h

A = 2 x 5

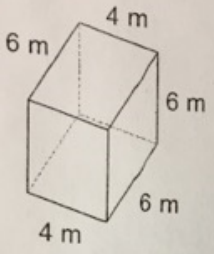
A = 10

4A = 40

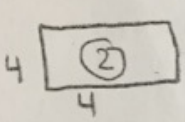
T_{SA} = 50 + 4 = 90 ft^2

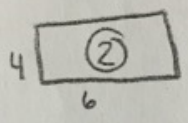
12) sphere

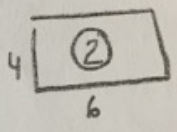
11)



4, 6, 4







$A = b \times h$
$A = 4 \times 4$
$A = 16$
$2A = 32\ m^2$

$A = b \times h$
$A = 4 \times 6$
$A = 24$
$2A = 48\ m^2$

$A = b \times h$
$A = 4 \times 6$
$A = 24$
$2A = 48\ m^2$

$TSA = 32 + 48 + 48$
$= 128\ m^2$