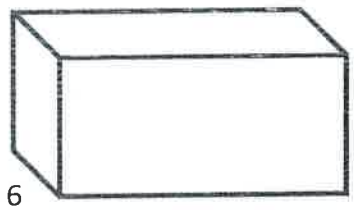
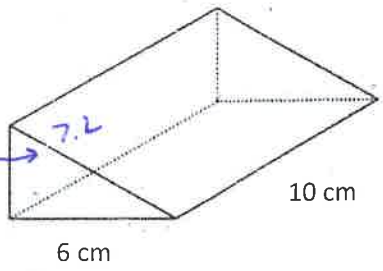
Name _____ Date _____

Find the surface area.
Use 3.14 for π. Round all final answers to the nearest tenth as needed.

2 sides 7·6 = 84
2 sides 6·12 = 144
2 sides 7·12 = 168
396 units²

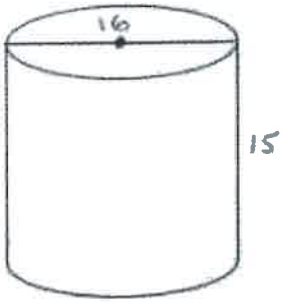


2 Δ: $\frac{1}{2}bh(2)$ = 24
Back: 4·10 = 40
Bottom: 6·10 = 60
Top: Pythag 4 cm
7.2 × 10 = 72



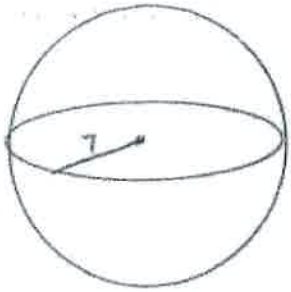
SA = 196 cm²

2 Bases: $\pi r^2 \cdot 2 = 3.14 \cdot 8^2 \cdot 2 = 401.92$
+ $2\pi rh$: 2(3.14)(8)(15)
753.6

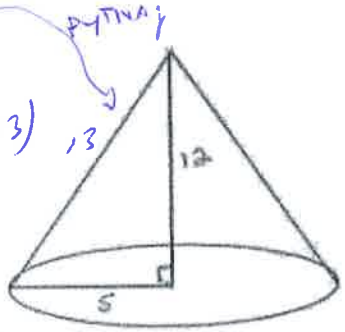


SA = 1155.52 units²

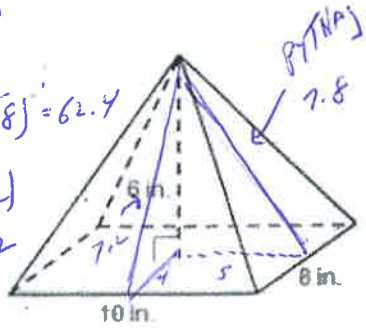
$4\pi r^2$
4(3.14)(7²)
615.44 units²



$\pi r^2 + \pi rl$
3.14(5)² + 3.14(5)(13)
78.5 + 204.1
282.6 units²

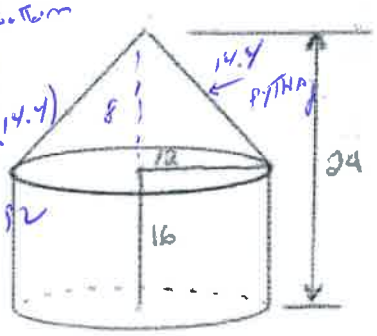


Area Base + 4 sides
80 + 2 sides → 2(½)(8)(7.8) = 62.4
+ 2 sides → 2(½)(10)(7.2)
72
80 + 62.4 + 72
214.4 in²



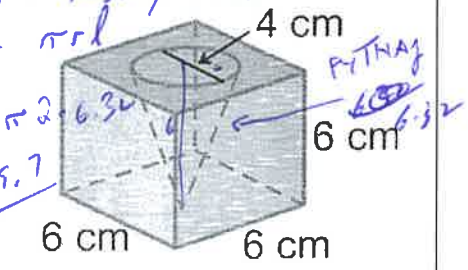
Cyl + Cone
Bottom: πr^2
Top = 0
Cyl: 2 ends
Base: 452.16
Cyl: 1205.76 +
1657.92

πrl
3.14(12)(14.4)
542.592



2200.51 units²

Cube − circle cut out + rest of cone
6(6×6) $\pi 2^2 + \pi rl$
216 − 12.56 + π2·6.32
39.7



243.14 cm²

front : 35 + 60 = 85

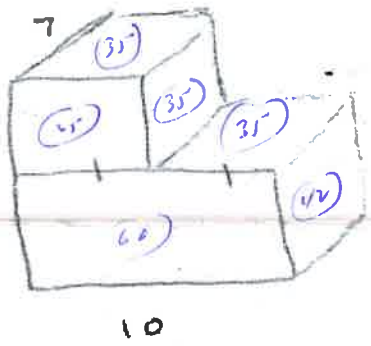
Back : 35 + 60 = 85

Right : 35 + 42 = 77

Left : 35 + 42 = 77

Top : 35 + 35 = 70

Bottom : 70



SA : 464 units²

Each block is 1 x 1 x 1cm

Front : 6

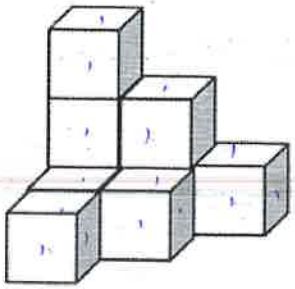
Back : 6

Right : 5

Left : 5

Top : 6

Bottom : 6



34 cm²

A farmer wishes to repaint the exterior of an old grain silo. It has a diameter of 18' and the cylindrical section is 35' tall.

What is the surface area of the silo to be painted?

Note that the base of the silo will not be painted as it is on the ground

Cyl (no Top or Bottom) + ½ Sphere

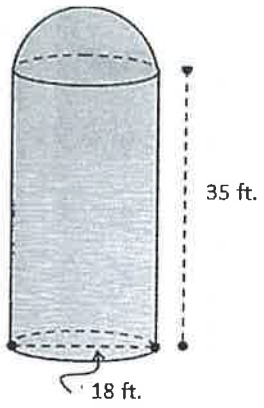
2πrh

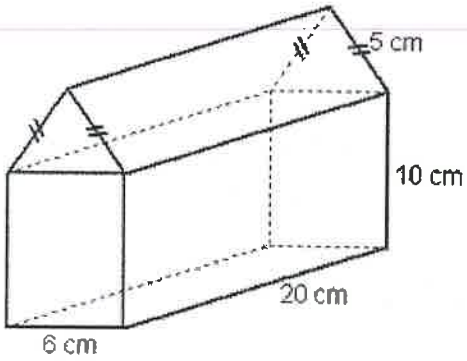
½ (4πr²)

2(3.14)(9)(35) + ½ 4(3.14)(9²)

1978.2 + 508.68

2486.88 ft²





Right

~~Front~~ ~~Left~~ ~~Back~~ : 10 · 20 = 200

Left

Front : 6 · 10 = 60

Back : 60

Right roof : 5 · 20 = 100

Left roof : 100

Bottom : 6 · 20 = 120

SA = 840 cm²