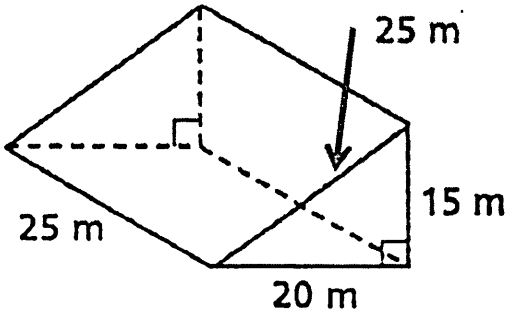
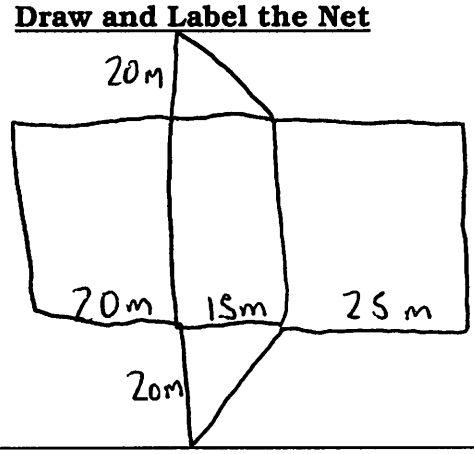
Surface Area Practice Name _____

This is an Example. Your Work Should Look Just as Organized and Complete as Mine!!

1. Find the Surface Area



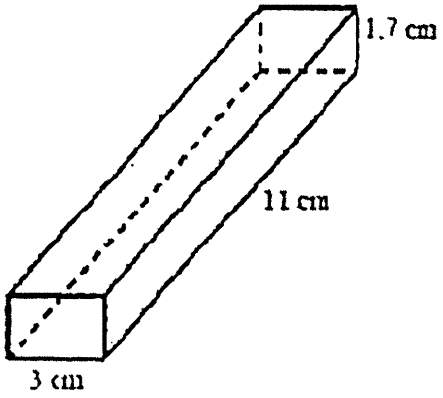
Draw and Label the Net



2 Δ Bases: $A = \frac{b \cdot h}{2}$ A = ? b = 15 m h = 20 m $A = \frac{15 \cdot 20}{2}$ A = 150 x 2 A's	= 300 m²
Bottom A = b · h A = ? B = 20 m h = 25 m A = 20 · 25 A = 500 m²	Right Face A = b · h A = ? b = 15 m h = 25 m A = 15 · 25 A = 375 m²
Left Face A = b · h A = ? b = 25 m h = 25 m A = 25 · 25 A = 625 m²	Surface Area 300 + 500 + 375 + 625 = 1800 m²

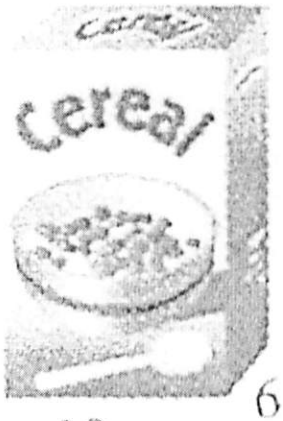
2. Find the Surface Area

Draw and Label the Net



3. Find the Surface Area

Draw and Label the Net



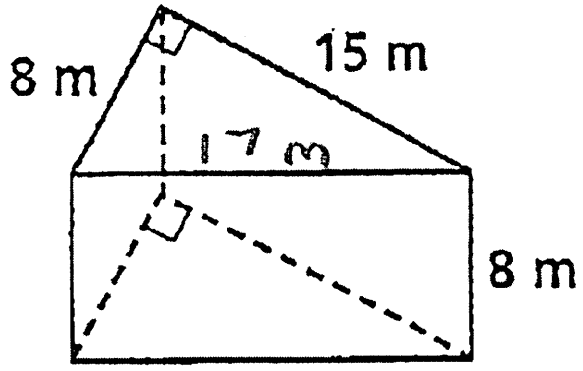
29 cm

6.5 cm

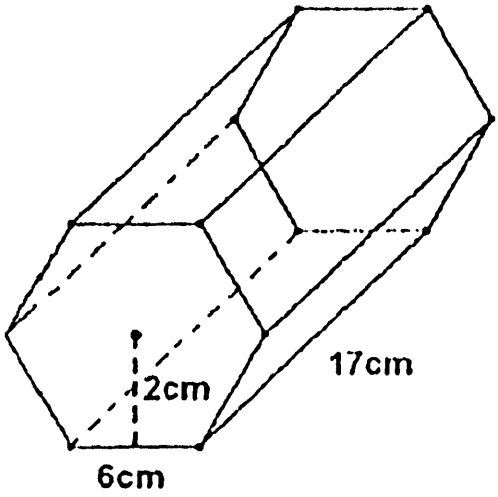
19 cm

4. Find the Surface Area

Draw and Label the Net



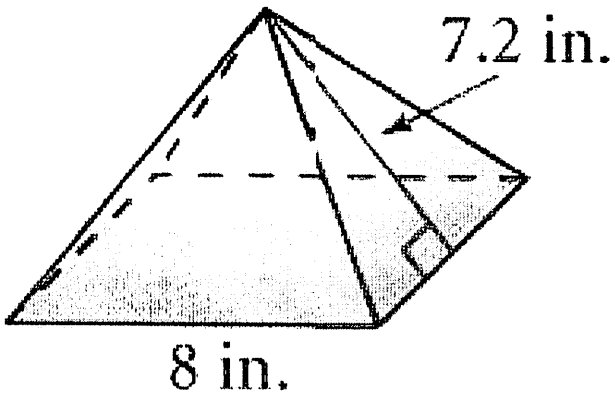
5. Find the Surface Area of the Regular Hexagonal Prism **Draw and Label the Net**



2 Hexagon Bases	
6 Rectangles	

6. Find the Surface Area of the Square Pyramid

Draw and Label the Net



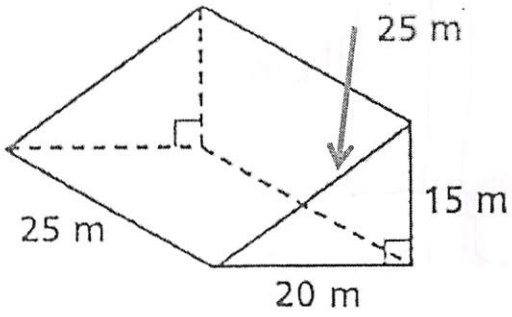
Square Base	
4 ≅ triangles	

Surface Area Practice

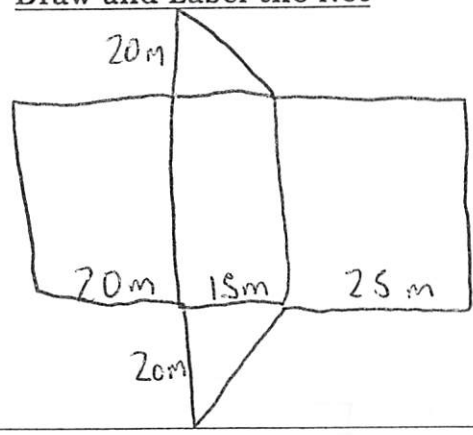
Name Key

This is an Example. Your Work Should Look Just as Organized and Complete as Mine!!

1. Find the Surface Area



Draw and Label the Net



2 Δ Bases:

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

$A = ?$

$b = 15\ m$

$h = 20\ m$

$A = \frac{15 \cdot 20}{2}$

$A = 150 \times 2\ A's$

$= 300\ m^2$

Bottom

$A = b \cdot h$

$A = ?$

$B = 20\ m$

$h = 25\ m$

$A = 20 \cdot 25$

$A = 500\ m^2$

Right Face

$A = b \cdot h$

$A = ?$

$b = 15\ m$

$h = 25\ m$

$A = 15 \cdot 25$

$A = 375\ m^2$

Left Face

$A = b \cdot h$

$A = ?$

$b = 25\ m$

$h = 25\ m$

$A = 25 \cdot 25$

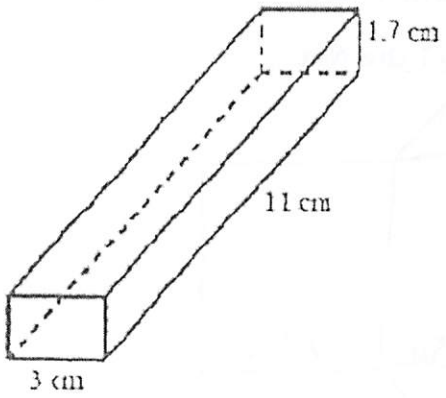
$A = 625\ m^2$

Surface Area

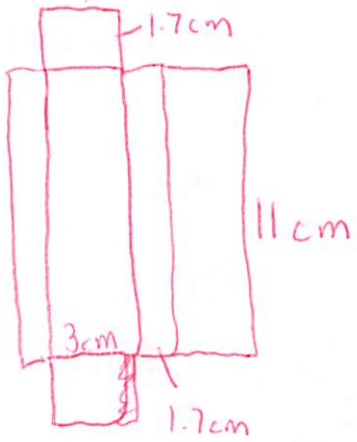
$300 + 500 + 375 + 625 =$

$1800\ m^2$

2. Find the Surface Area



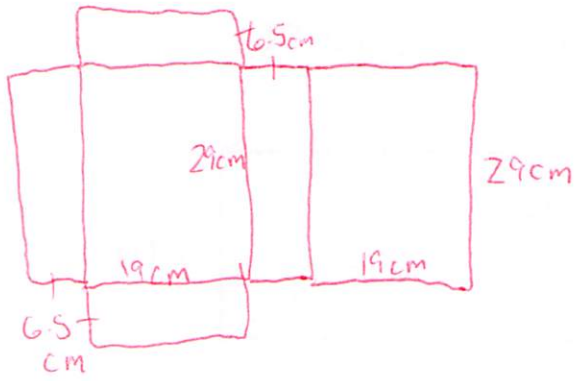
Draw and Label the Net



Front / Back □ A = ? b = 3 cm h = 1.7 cm A = b · h A = (3 cm)(1.7 cm) A = 5.1 cm² × 2 □'s = 10.2 cm²	
Top / Bottom □ A = ? b = 3 cm h = 11 cm A = b h A = (3 cm)(11 cm) A = 33 cm × 2 □'s = 66 cm²	
Left / Right □ A = ? b = 11 cm h = 1.7 cm A = b · h A = (11 cm)(1.7 cm) A = 18.7 cm × 2 □'s = 37.4 cm²	Surface Area 10.2 + 66 + 37.4 113.6 cm²

3. Find the Surface Area

Draw and Label the Net



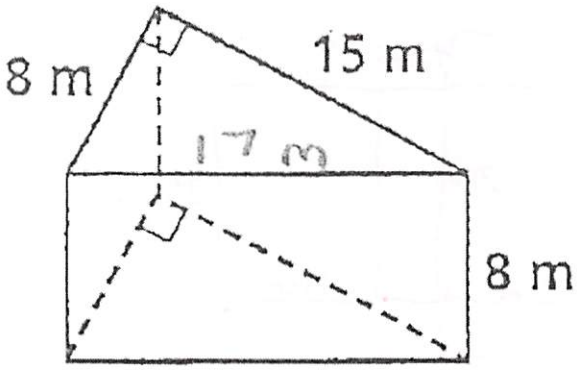
Front / Back □ A = ? b = 19 cm h = 29 cm A = bh A = (19 cm)(29 cm) A = 551 cm² ×2 □'s =	1102 cm²
Top / Bottom □ A = ? b = 6.5 cm h = 19 cm A = bh A = (6.5 cm)(19 cm) A = 123.5 cm² ×2 □'s =	247 cm²
Right / Left □ A = ? b = 6.5 cm h = 29 cm A = bh A = (6.5 cm)(29 cm) A = 188.5 cm² ×2 □'s =	377 cm²

Surface Area

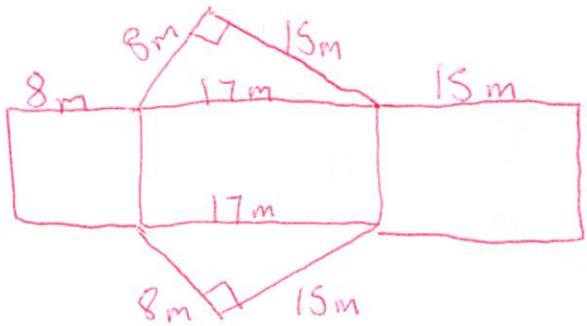
1102 + 247 + 377

1726 cm²

4. Find the Surface Area



Draw and Label the Net



Top / Bottom Δ's

$A = ?$ $\quad A = \frac{b \cdot h}{2}$

$b = 8\,m$ $\quad A = \frac{(8\,m)(15\,m)}{2}$

$h = 15\,m$

$A = 60\,m^2 \times 2\Delta's \quad 120\,m^2$

Front □:

$A = ?$ $\quad A = b \cdot h$

$b = 17\,m$ $\quad A = (17\,m)(8\,m)$

$h = 8\,m$ $\quad A = 136\,m^2$

Left □:

$A = ?$ $\quad A = b \cdot h$

$b = 8\,m$ $\quad A = (8\,m)(8\,m)$

$h = 8\,m$ $\quad A = 64\,m^2$

Right □:

$A = ?$ $\quad A = b \cdot h$

$b = 15\,m$ $\quad A = (15\,m)(8\,m)$

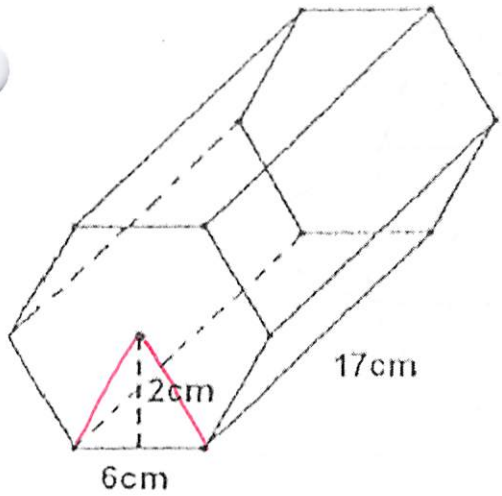
$h = 8\,m$ $\quad A = 120\,m^2$

Surface Area

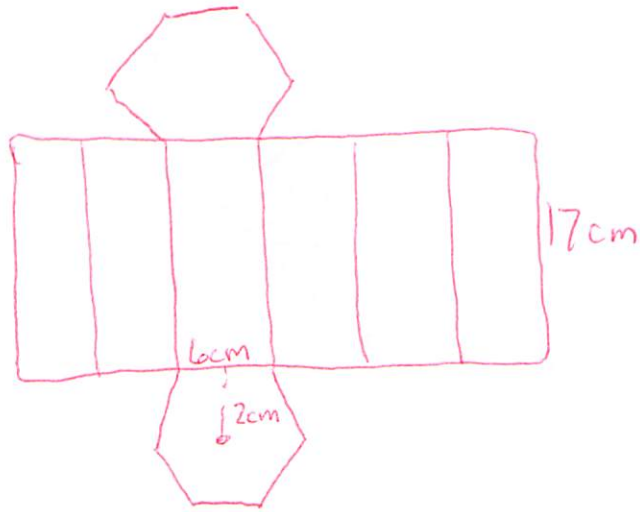
120 + 136 + 64 + 120

$440\,m^2$

5. Find the Surface Area of the Regular Hexagonal Prism



Draw and Label the Net



2 Hexagon Bases 6 $\triangle$'s

$A = ?$ $A = \frac{b \cdot h}{2}$

$b = 6\text{ cm}$ $A = \frac{(6\text{cm})(2\text{cm})}{2}$

$h = 2\text{cm}$

$A = 6\text{ cm} \times 6\triangle\text{'s} = 36\text{cm}^2 \times 2\hexagon\text{'s} = 72\text{cm}^2$

6 Rectangles

$A = ?$ $A = b \cdot h$

$b = 17\text{cm}$ $A = (17\text{cm})(6\text{cm})$

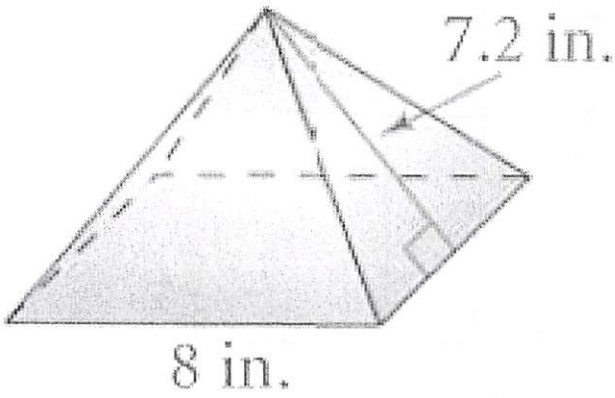
$h = 6\text{cm}$ $A = 102\text{ cm}^2$ $\times 6\square\text{'s} = 612\text{ cm}^2$

Surface Area

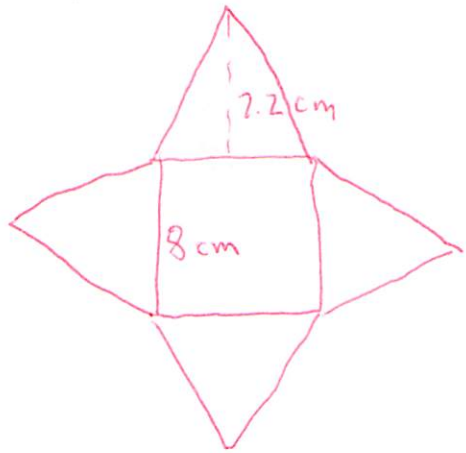
$72 + 612$

684 cm^2

6. Find the Surface Area of the Square Pyramid



Draw and Label the Net



Square Base

$A = ?$ $\quad A = b \cdot h$

$b = 8$ in $\quad A = (8 \text{ in})(8 \text{ in})$

$h = 8$ in

$A = 64 \text{ in}^2$

4 $\cong$ triangles

$A = ?$ $\quad A = \frac{b \cdot h}{2}$

$b = 8$ in $\quad A = \frac{(8 \text{ in})(7.2 \text{ in})}{2}$

$h = 7.2$ in

$A = 28.8 \text{ in}^2 \times 4 \text{ } \Delta\text{'s} = 115.2$

Surface Area

$64 + 115.2$

179.2 in^2