$\qquad$

1. Find the Surface Area of the Rectangular Prism.

2. Find the Surface Area of the Regular Triangular Pyramid.

3. Find the Surface Area of the Triangular Prism.



| Left Face | Back Face | Right Face |
| :--- | :--- | :--- |
| Top Base | Bottom Base | Total Surface Area: |
|  |  |  |

4. Find the Surface Area of the Square Pyramid.


| Front Face | Back Face | Right Face |
| :--- | :--- | :--- |
|  |  |  |
| Left Face | Base | Total Surface Area: |
|  |  |  |

5. Find the Surface Area of the Rectangular Prism.


5

| Front Face | Right Face | Back Face |
| :--- | :--- | :--- |
| Top Base | Bottom Base | Left Base |
|  |  |  |

## Total Surface Area:

6. Find the Surface Area of the Rectangular Pyramid.


| Front Face | Right Face | Back Face |
| :--- | :--- | :--- |
| Left Face | Base | Total Surface Area: |
|  |  |  |

7. Find the Surface Area of the Cube


| Front Face | Left Face | Back Face |
| :--- | :--- | :--- |
| Bottom Face | Right Face | Top Face |

## Total Surface Area:

8. Find the Surface Area of the Regular Triangular Pyramid.


| Left Face | Right Face | Front Face |
| :--- | :--- | :--- |
| Base |  | Total Surface Area: |
|  |  |  |

## Example

Find the surface area of the rectangular pyramid to the nearest square centimeter.


## Example

The mailing package has the shape of a regular triangular prism. Find how many square inches of cardboard it takes to make the mailing package. Round your answer to the nearest square inch.


## Challenge:

You plan to build a birdhouse with one square doorway as shown. How many square centimeters of wood do you need to make the birdhouse?


1. Find the Surface Area of the Rectangular Prism.

$$
A=b: h
$$


$\qquad$


Find the Surface Area of the Regular Triangular Pyramid.


Example:
3. Find the Surface Area of the Triangular Prism.


4. Find the Surface Area of the Square Pyramid.




Total Surface Area: $\square$ 310
6. Find the Surface Area of the Rectangular Pyramid.


7. Find the Surface Area of the Cube


8. Find the Surface Area of the Regular Triangular Pyramid.


| Left Face | Right Face <br> $A=\frac{b \cdot h}{2}$ <br> $=A=\frac{6 \cdot 8.2}{2}$ <br> $A=24.6$ | $A=24.6$ |
| :--- | :--- | :--- |$\quad$| Front Face |
| :--- |
| $A=\frac{b \cdot h}{2}$ |
| $A=\frac{6 \cdot 5.2}{2}$ |
| $A=15.6$ |$\quad$| Total Surface Area: |
| :---: |
| Base |

Example

Find the surface area of the rectangular pyramid to the nearest square centimeter.

Left and Right Face

$$
\begin{aligned}
& A=\frac{b \cdot h}{2} \\
& A=\frac{2 \cdot 2 \cdot 9.6}{2} \\
& A=10.56 \mathrm{~cm}^{2} \times 2=21.12 \mathrm{~cm}^{2}
\end{aligned}
$$



Front and Back Face

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

$$
A=\frac{6.4 \cdot 9.1}{2}
$$

Bose:

$$
A=29.12 \mathrm{~cm}^{2} \times 2=
$$

$$
A=b \cdot h
$$

$$
A=2.2 \cdot 6.4
$$

$$
A=14.08 \mathrm{~cm}^{2}
$$

Example
're mailing package has the shape of a regular triangular prism. Find ow many square inches of cardboard it takes to make the mailing package. Round your answer to the nearest square inch.

Rectangular Faces $\times 3$


$$
\begin{aligned}
& A=b \cdot h \\
& A=25 \cdot 6 \\
& A=150 \text { in }^{2} \times 3=450 \text { in }^{2}
\end{aligned}
$$

Triangle Bases $x^{2}$


$$
A=\frac{6 \cdot h}{2}
$$

$$
A=\frac{6 \cdot 5.2}{2}
$$

$$
A=15.6 \text { in }^{2} \times 2=\underline{31.2 \mathrm{in}^{2}}
$$

Challenge:
You plan to build a birdhouse with one square doorway as shown. How many square centimeters of wood do you need to make the birdhouse?


Bottom


$$
16 \cdot 12=192 \mathrm{~cm}^{2}
$$

Sides $x^{2}$

$$
12 \cdot 24=288 \mathrm{~cm}^{2} \times 2=576 \mathrm{~cm}^{2}
$$

Roof $\times 2$

$$
12 \cdot 10=120 \mathrm{~cm}^{2} x^{2}=240 \mathrm{~cm}^{2}
$$

Beak


Front

$$
432 \mathrm{~cm}^{2}-16 \mathrm{~cm}^{2}=416 \mathrm{~cm}^{2}
$$

