Name \_\_\_\_\_

## Determining the Surface Area of a Right Prism

In this worksheet, we will practice determining the surface area of a right (rectangular) prism. Finding the surface area of a rectangular prism is the same as finding and adding together the area of its six rectangles that cover it.



#### Exercise Questions:

<ol> <li>Find the surface area of a rectangular prism, where:</li> </ol>			<b>4</b> . Find the surface area of a rectangular prism, where:			
a=3	b=3	c=6	a=1	b=1	c=4	
The surface of	area is	units <sup>2</sup> .	The surface o	area is	units <sup>2</sup> .	
<b>2</b> . Find the surface area of a rectangular prism, where:			<b>5</b> . Find the surface area of a rectangular prism, where:			
a=5	b=5	c=10	a=2	b=2	c=8	
The surface of	area is	units <sup>2</sup> .	The surface o	area is	units <sup>2</sup> .	
<b>3</b> . Find the surface area of a rectangular prism, where:			<b>6</b> . Find the surface area of a rectangular prism, where:			
a=6	b=6	c=9	a=8	b=8	c=20	
The surface of	area is	units ².	The surface o	area is	units <sup>2</sup> .	

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### Answer Key

### Determining the Surface Area of a Right Prism

In this worksheet, we will practice determining the surface area of a right (rectangular) prism. Finding the surface area of a rectangular prism is the same as finding and adding together the area of its six rectangles that cover it.  $\begin{array}{c} c\\ a = 4\\ b = 4\\ c = 8\end{array}$ The formula that we use to find the surface area of a rectangular prism is:

The surface area of this rectangular prism is  $(2 \times 4 \times 4) + (2 \times 4 \times 8) + (2 \times 4 \times 8) = 32 + 64 + 64 = 160 \text{ units}^2$ 

#### Exercise Questions:

Surface Area = 2ab + 2bc + 2ac

<b>1.</b> Find the surface area of a rectangular prism, where:			<b>4</b> . Find the surface area of a rectangular prism, where:			
a=3	b=3	c=6	a=1	b=1	c=4	
The surface of	area is <u>90</u>	_units <sup>2</sup> .	The surface o	area is <u>18</u>	units <sup>2</sup> .	
<b>2</b> . Find the surface area of a rectangular prism, where:			<b>5</b> . Find the surface area of a rectangular prism, where:			
a=5	b=5	c=10	a=2	b=2	c=8	
The surface of	area is <u>250</u>	units <sup>2</sup> .	The surface o	area is <u>72</u>	_units <sup>2</sup> .	
<b>3</b> . Find the surface area of a rectangular prism, where:			<b>6</b> . Find the surface area of a rectangular prism, where:			
a=6	b=6	c=9	a=8	b=8	c=20	
The surface of	area is <u>288</u> _	units <sup>2</sup> .	The surface area is <u>786</u> units <sup>2</sup> .			

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# Answer Key

