

### Four Corners Summary Sheet - Pythagorean Theorem

Sketch of Problem	Work Space	Answer Space										
<p><b>(1) Rectangle ABCD</b>  <i>Draw it out exactly as shown on the poster.</i></p>		<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 20px;"> <tr> <td style="padding: 5px;">Area of <b>rectangle</b> ABCD</td> <td style="padding: 5px; text-align: center;">12in<sup>2</sup></td> </tr> <tr> <td style="padding: 5px;">Area of <b>triangle</b> ABC</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Length of line AB</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Length of line BC</td> <td style="padding: 5px; text-align: center;">3 in</td> </tr> <tr> <td style="padding: 5px;">Length of line AC</td> <td style="padding: 5px;"></td> </tr> </table> <ol style="list-style-type: none"> <li>1. What is the sum of the areas of <math>\triangle</math> ABC and ADC?</li>   <li>2. How does the answer to question 1 compare to the area of RECTANGLE ABCD ?</li> </ol>	Area of <b>rectangle</b> ABCD	12in <sup>2</sup>	Area of <b>triangle</b> ABC		Length of line AB		Length of line BC	3 in	Length of line AC	
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Area of <b>triangle</b> ABC												
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<p><b>(2) Rectangle JKLM</b>  <i>Draw it out exactly as shown on the poster.</i></p>		<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 20px;"> <tr> <td style="padding: 5px;">Area of <b>rectangle</b> JKLM</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Area of <b>triangle</b> JKM</td> <td style="padding: 5px; text-align: center;">30 cm<sup>2</sup></td> </tr> <tr> <td style="padding: 5px;">Length of line KL</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Length of line LM</td> <td style="padding: 5px; text-align: center;">5 cm</td> </tr> <tr> <td style="padding: 5px;">Length of line KM</td> <td style="padding: 5px;"></td> </tr> </table> <ol style="list-style-type: none"> <li>1. What is the perimeter of MLK?</li>   <li>2. Is the perimeter of RECTANGLE JKLM greater than 24cm, less than 24 cm, or equal to 24 cm? How do you know? You must support your answer showing ALL work.</li> </ol>	Area of <b>rectangle</b> JKLM		Area of <b>triangle</b> JKM	30 cm <sup>2</sup>	Length of line KL		Length of line LM	5 cm	Length of line KM	
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Area of <b>triangle</b> JKM	30 cm <sup>2</sup>											
Length of line KL												
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### (3) Rectangle NOPQ

*Draw it out exactly as shown on the poster.*

Area of <b>rectangle</b> NOPQ	
Area of <b>triangle</b> NOP	
Length of line NQ	16 m
Length of line QP	12 m
Length of line NP	

1. What is the perimeter of  $\triangle ONP$  ?
2. What is the length of ON?
3. What is the length of OP?

### (4) Rectangle WXYZ

*Draw it out exactly as shown on the poster.*

Area of <b>rectangle</b> WXYZ	
Area of <b>triangle</b> ZWX	
Length of line WZ	
Length of line WX	15 ft
Length of line XZ	17 ft