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| Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour \_\_\_\_\_\_\_\_\_ Table \_\_\_\_\_\_\_\_\_\_\_Objective 1: Determine the possible range of values for a third side of a triangle when given two sides

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Teacher comments: | Objective 2: Assuming that you are two given sides of a right triangle, determine two possible triangles Rate yourself 2A: leg/leg/unknown hypotenuse

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Rate yourself 2B: unknown leg/leg/ hypotenuse

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Teacher comments: | Objective 3: Assuming that you are two given three different numbers, classify related triangles by side and angleRate yourself 3A: Triangle is possible

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Rate yourself 3B: Triangle is NOT possible

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Teacher comments: |
| Objective 4: Simplification of square rootsTeacher comments:  | Rate yourself

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

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| Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour \_\_\_\_\_\_\_\_\_ Table \_\_\_\_\_\_\_\_\_\_\_Objective 1: Determine the possible range of values for a third side of a triangle when given two sides

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Teacher comments: |
| Objective 4: Simplification of square rootsTeacher comments:  | Rate yourself

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| --- | --- | --- |
| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

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Organizer Version: SHOW YOUR WORK

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| You are given two sides of a triangle as 16 and 30Objective 1: Determine the range of the value COULD make ANY triangle that have at least these given sides | You are given two sides of a right triangle as 16 and 30Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenario | You are given two sides of a right triangle as 16 and 30Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenario |
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| Objective 4:Classify each of the following triples(must justify answer) | Triple 1:{16,30,31} | Triple 2:{16,30,46} | Triple 3:{16,30,45} | Triple 4:{16,30,37} |

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Resourcer Version: SHOW YOUR WORK

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| You are given two sides of a triangle as 20 and 21Objective 1: Determine the range of the value COULD make ANY triangle that have at least these given sides | You are given two sides of a right triangle as 20 and 21Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenarioShape  Description automatically generated | You are given two sides of a right triangle as 20 and 21Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenarioShape  Description automatically generated |
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| Objective 4:Classify each of the following triples(must justify answer) | Triple 1:{20,21,29} | Triple 2:{21,21,30} | Triple 3:{20,21,41} | Triple 4:{20,21,40} |

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| Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour \_\_\_\_\_\_\_\_\_ Table \_\_\_\_\_\_\_\_\_\_\_Objective 1: Determine the possible range of values for a third side of a triangle when given two sides

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Teacher comments: | Objective 2: Assuming that you are two given sides of a right triangle, determine two possible triangles Rate yourself 2A: leg/leg/unknown hypotenuse

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Rate yourself 2B: unknown leg/leg/ hypotenuse

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Teacher comments: | Objective 3: Assuming that you are two given three different numbers, classify related triangles by side and angleRate yourself 3A: Triangle is possible

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Rate yourself 3B: Triangle is NOT possible

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Teacher comments: |
| Objective 4: Simplification of square rootsTeacher comments:  | Rate yourself

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

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| Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour \_\_\_\_\_\_\_\_\_ Table \_\_\_\_\_\_\_\_\_\_\_Objective 1: Determine the possible range of values for a third side of a triangle when given two sides

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Rate yourself 2B: unknown leg/leg/ hypotenuse

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Teacher comments: | Objective 3: Assuming that you are two given three different numbers, classify related triangles by side and angleRate yourself 3A: Triangle is possible

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Rate yourself 3B: Triangle is NOT possible

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| --- | --- | --- |
| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

Teacher comments: |
| Objective 4: Simplification of square rootsTeacher comments:  | Rate yourself

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| I can explain to someone else | I can only do; I cannot not explain to others | Not there yet |

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Understander Version: SHOW YOUR WORK

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| You are given two sides of a triangle as 11 and 61Objective 1: Determine the range of the value COULD make ANY triangle that have at least these given sides | You are given two sides of a right triangle as 11 and 61Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenarioShape  Description automatically generated | You are given two sides of a right triangle as 11 and 61Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenario |
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| Objective 4:Classify each of the following triples(must justify answer) | Triple 1:{11,60,61} | Triple 2:{11,60,62} | Triple 3:{11,60,58} | Triple 4:{11,60,63} |

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Includer Version: SHOW YOUR WORK

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| You are given two sides of a triangle as 21 and 28Objective 1: Determine the range of the value COULD make ANY triangle that have at least these given sides | You are given two sides of a right triangle as 21 and 28Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenarioShape  Description automatically generated | You are given two sides of a right triangle as 21 and 28Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenarioShape  Description automatically generated |
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| Objective 4:Classify each of the following triples(must justify answer) | Triple 1:{21,28,47} | Triple 2:{21,28,50} | Triple 3:{21,28,35} | Triple 4:{21,28,32} |

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Organizer Version: SHOW YOUR WORK

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| --- | --- | --- |
| You are given two sides of a triangle as 16 and 30Objective 1: Determine the range of the value COULD make ANY triangle that have at least these given sides | You are given two sides of a right triangle as 16 and 30Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenario[LINK LEG LEG](https://www.desmos.com/calculator/221posz9ko) | You are given two sides of a right triangle as 16 and 30Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenario[LINK LEG HYP](https://www.desmos.com/calculator/2clxcmopxp)  |
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| Objective 4:Classify each of the following triples(must justify answer) | Triple 1:{16,30,31}[LINK 16 30 31](https://www.desmos.com/calculator/xy1oyqz52x) | Triple 2:{16,30,46}[LINK 16 30 46](https://www.desmos.com/calculator/cmuvumrvox) | Triple 3:{16,30,45}[LINK 16 30 45](https://www.desmos.com/calculator/arok4h04z7) | Triple 4:{16,30,37}[LINK 16 30 37](https://www.desmos.com/calculator/5z1hvqmddy) |

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Resourcer Version: SHOW YOUR WORK

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| You are given two sides of a triangle as 20 and 21Objective 1: Determine the range of the value COULD make ANY triangle that have at least these given sides | You are given two sides of a right triangle as 20 and 21Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenarioShape  Description automatically generated | You are given two sides of a right triangle as 20 and 21Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenarioShape  Description automatically generated |
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| Objective 3:Classify each of the following triples(must justify answer) | Triple 1:{20,21,29} | Triple 2:{21,21,30} | Triple 3:{20,21,41} | Triple 4:{20,21,40} |

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