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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   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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 angle  Rate yourself 3A: Triangle is possible   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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 roots  Teacher comments: | | Rate yourself   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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 angle  Rate yourself 3A: Triangle is possible   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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 roots  Teacher comments: | | Rate yourself   |  |  |  | | --- | --- | --- | | I can explain to someone else | I can only do; I cannot not explain to others | Not there yet | | |

Organizer Version: SHOW YOUR WORK

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| You are given two sides of a triangle as 16 and 30  Objective 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 30  Objective 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 30  Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenario |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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} | | | |

Resourcer Version: SHOW YOUR WORK

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| You are given two sides of a triangle as 20 and 21  Objective 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 21  Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenario  Shape  Description automatically generated | You are given two sides of a right triangle as 20 and 21  Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenario  Shape  Description automatically generated |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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 angle  Rate yourself 3A: Triangle is possible   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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 roots  Teacher comments: | | Rate yourself   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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 angle  Rate yourself 3A: Triangle is possible   |  |  |  | | --- | --- | --- | | 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   |  |  |  | | --- | --- | --- | | 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 roots  Teacher comments: | | Rate yourself   |  |  |  | | --- | --- | --- | | I can explain to someone else | I can only do; I cannot not explain to others | Not there yet | | |

Understander Version: SHOW YOUR WORK

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| You are given two sides of a triangle as 11 and 61  Objective 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 61  Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenario  Shape  Description automatically generated | You are given two sides of a right triangle as 11 and 61  Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenario |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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} | | | |

Includer Version: SHOW YOUR WORK

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| --- | --- | --- |
| You are given two sides of a triangle as 21 and 28  Objective 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 28  Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenario  Shape  Description automatically generated | You are given two sides of a right triangle as 21 and 28  Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenario  Shape  Description automatically generated |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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} | | | |

Organizer Version: SHOW YOUR WORK

|  |  |  |
| --- | --- | --- |
| You are given two sides of a triangle as 16 and 30  Objective 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 30  Objective 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 30  Objective 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) |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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) | | | |

Resourcer Version: SHOW YOUR WORK

|  |  |  |
| --- | --- | --- |
| You are given two sides of a triangle as 20 and 21  Objective 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 21  Objective 2: Determine the exact, the simplified, and approximate side length if this were a LEG/LEG scenario  Shape  Description automatically generated | You are given two sides of a right triangle as 20 and 21  Objective 3: Determine the exact, the simplified, and approximate side length if this were a LEG/HYP scenario  Shape  Description automatically generated |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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} | | | |