| Content Standard | **MAFS.8.G** *Geometry*<br><br>**MAFS.8.G.2** *Understand congruence and similarity using physical models, transparencies, and geometry software.*<br><br>**MAFS.8.G.2.6** Explain a proof of the Pythagorean Theorem and its converse. |
|---|---|
| Assessment Limit | For the converse, use only perfect roots. |
| Calculator | Yes |
| Item Types | GRID<br>Multiple Choice<br>Multiselect<br>Open Response |
| Context | Allowable |

| Sample Item | Item Type |
|---|---|
| Which set of numbers forms a right triangle?<br><br>A.  $1, 2, 3$<br>B.  $3.2, 7, 8$<br>C.  $3.6, 4.7, 5.2$<br>D.  $6, 8, 10$ | Multiple Choice |
| The side lengths of a triangle are given.<br><br>$3, 4, 5$<br><br>Explain how you know which side will be opposite the right angle. | Open Response |
| Select three side lengths, in centimeters (cm), that can form a right triangle.<br><br>☐　　5 cm<br><br>☐　　6 cm<br><br>☐　　8 cm<br><br>☐　　10 cm<br><br>☐　　11 cm<br><br>☐　　12 cm | Multiselect |