Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Chapter 7 Riddle

|  |  |  |  |
| --- | --- | --- | --- |
| acute | angle | cosine law | oblique |
| obtuse | opposite | right | side |
| sine law | triangle |  |  |

**Riddle:** What does a mathematician bring to a picnic?

*To find out, identify each term described. Write the term in the blank provided. Copy the identified letters to the blank answer at the end of the puzzle.*

**1.** A type of triangle that does not contain a right angle

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**2.** A type of triangle with three acute interior angles

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**3.** A type of triangle with one obtuse interior angle

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**4.** A type of triangle with one right interior angle

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**5.** A trigonometric relationship between the three sides of a triangle and the cosine of one of the angles

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**6.** A trigonometric relationship between the sine ratios of angles and the sides

opposite these angles

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**7.** The intersection of two adjacent sides of a triangle at a common point called the vertex

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**8.** Directly across from a point of reference

 8 3

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**9.** A three-sided polygon

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**10.** The part of a triangle opposite each angle

 4

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**Riddle Answer:**

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 1 2 3 4 5 6 7 8 9 10 11 12