Unit: Angles & Triangles He Said, She Said

| Name |    |
|------|----|
| Date | Pd |

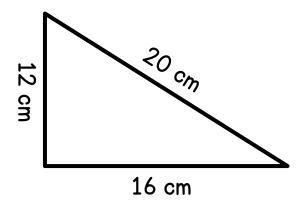
#### CONDITIONS OF A TRIANGLE

Each of the 10 cards will have statements from two students. Read carefully and choose the name of the student who made the correct statement. Then, justify your answer in the space provided.

| • | _ is correct because | <b>2</b>          | is correct because |
|---|----------------------|-------------------|--------------------|
| 3 | _ is correct because | •                 | is correct because |
| 5 | _ is correct because | <b>6</b>          | is correct because |
|   | _is correct because  | <b>3</b>          | is correct because |
| 9 | _ is correct because | <b>DO</b> because | _ is correct       |

### CARd I:

Three different lengths are used to form a triangle.



Abdullah says that the triangle formed is unique.

Anya says that more than one triangle can be formed.

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# **CARd 2:**

A triangular garden is being formed by bricks. The three sides measure 4 feet, 10 feet, and 3 feet in length.

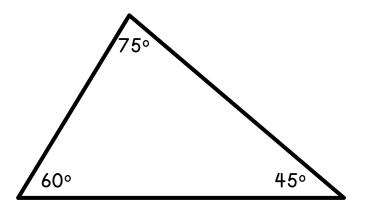
Will these measurements result in a triangle?

Benito says that these measurements will form a unique triangle.

Beatrice says that a triangle will not be formed by these measurements.

## (ARd 3:

Three different angle measures are used to form a triangle.



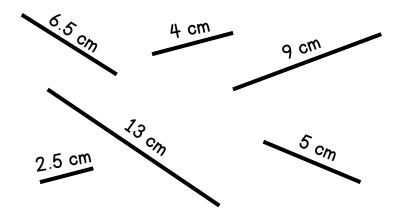
Cyril says that the angle measures will create one unique triangle.

Clarice says that the angle measures will create more than one triangle.

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# CARd 4:

Six different wooden dowel rods are scattered on a workbench. Which three will create a unique triangle?



Dorian says that the 2.5 cm, 4 cm, and 6.5 cm dowel rods will form a unique triangle.

Danielle says that the 4 cm, 6.5 cm, and 9 cm dowel rods will form a unique triangle.

## (ARd 5:

Two sides of a triangle have lengths of 6 inches and 10 inches. What are the possible lengths of the third side?

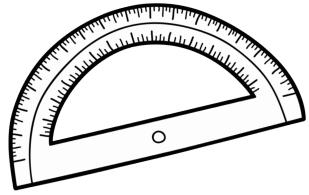
Elias says that the side length could be between 4 inches and 16 inches.

Ebony says that the side length could be between 4 and 10 inches.

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#### CARd 6:

Two angles in a triangle measure 48.3° and 33.6°. What is the measure of the third angle in the triangle?



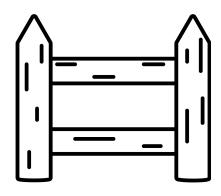
Fritz says that the third angle measures 89.1°.

Felicia says that the third angle measures 98.1°.

### CARd 7:

A triangular fence is being formed by wood planks. The three planks measure 9 feet, 14 feet, and 6 feet in length.

Gary says that a unique triangle will be formed by these measurements.



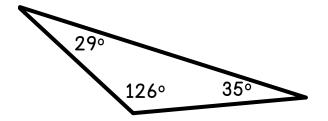
Gloria says that more than one triangle will be formed by these measurements.

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# **CARd 8:**

Three different angle measures are used to form a triangle.

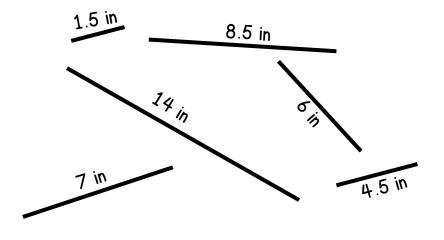
Haden says that the angle measures do not create a triangle.



Hazel says that the angle measures will create more than one triangle.

### (ARd 9:

Spaghetti noodles are scattered on the kitchen table. Which three will create a unique triangle?



Irving says that the 14 in, 4.5 in, and 8.5 in spaghetti noodles will form a unique triangle.

Isabella says that the 8.5 in, 7 in, and 4.5 in spaghetti noodles will form a unique triangle.

#### CARd IO:

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Two sides of a triangle have lengths of 14 meters and 17 meters. What are the possible lengths of the third side?

Jung says that the side length could be between 3 and 31 meters.

Jasmine says that the side length could be between 3 and 17 meters.

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| Name_ | KEY |
|-------|-----|
| Date  | Pd  |

#### CONDITIONS OF A TRIANGLE

Each of the 10 cards will have statements from two students. Read carefully and choose the name of the student who made the correct statement. Then, justify your answer in the space provided.

| Abdullah is correct because                    | 2 Beatrice is correct because     |
|--|-----------------------------------|
| *Check students' work. Explanations will vary. |                                   |
|  |                                   |
| 3 Clarice is correct because                   | • Danielle is correct because     |
|  |                                   |
|  |                                   |
| 5 <u>Elias</u> is correct because              | 6 Felicia is correct because      |
|  |                                   |
|  |                                   |
| <b>7</b> Gary is correct because               | Haden is correct because          |
|  |                                   |
|  |                                   |
| Isabella is correct because                    | <b>●●</b> Jung is correct because |
|  |                                   |
|  |                                   |