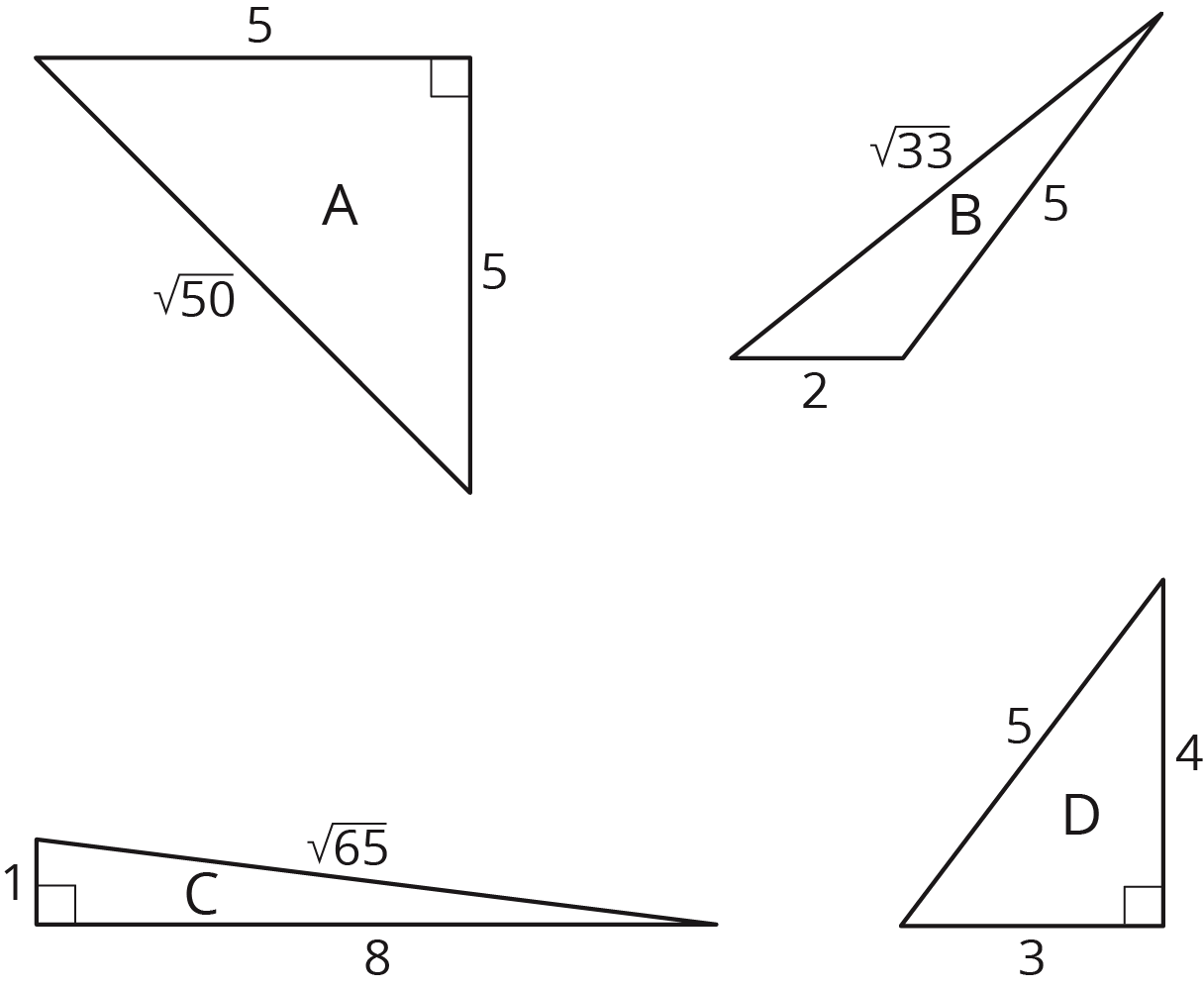
## Unit 8 Lesson 6: Finding Side Lengths of Triangles

### 1 Which One Doesn’t Belong: Triangles (Warm up)

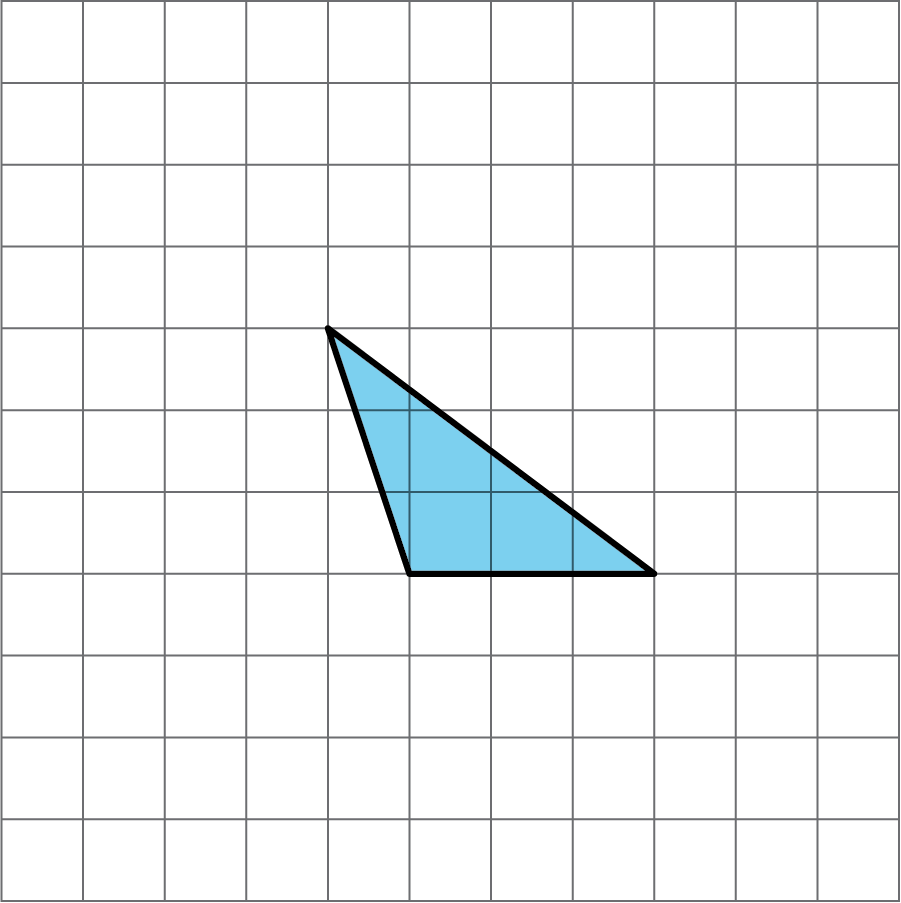
#### Student Task Statement

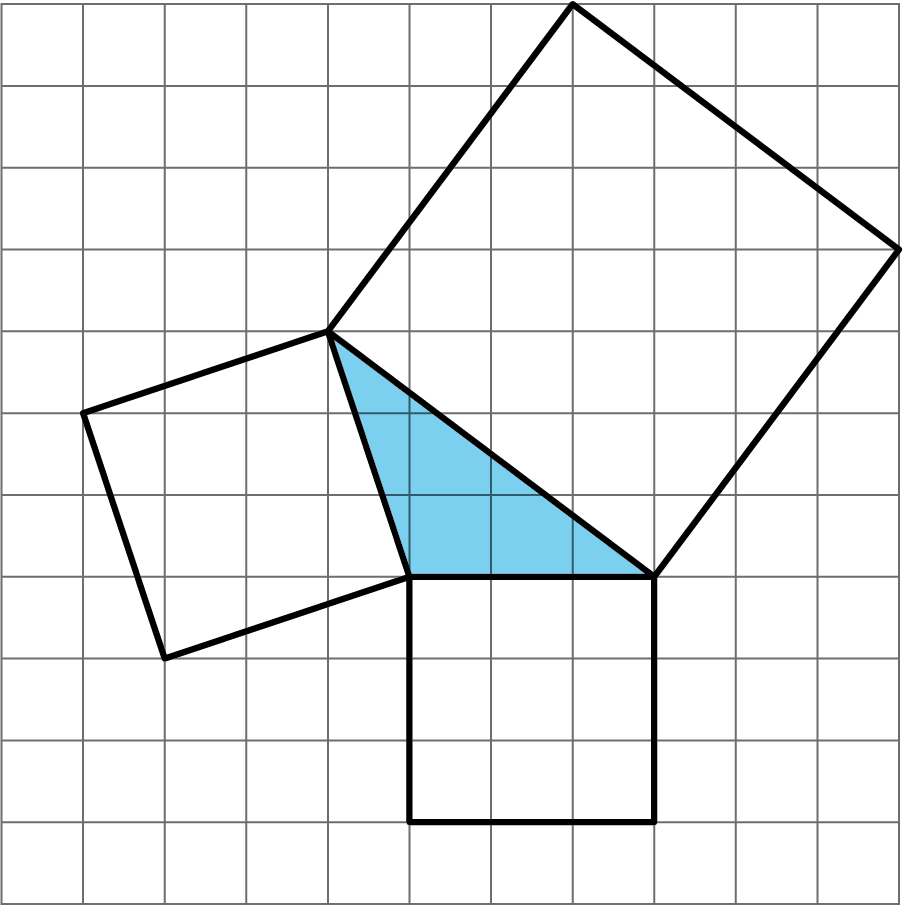
Which triangle doesn’t belong?



### 2 A Table of Triangles

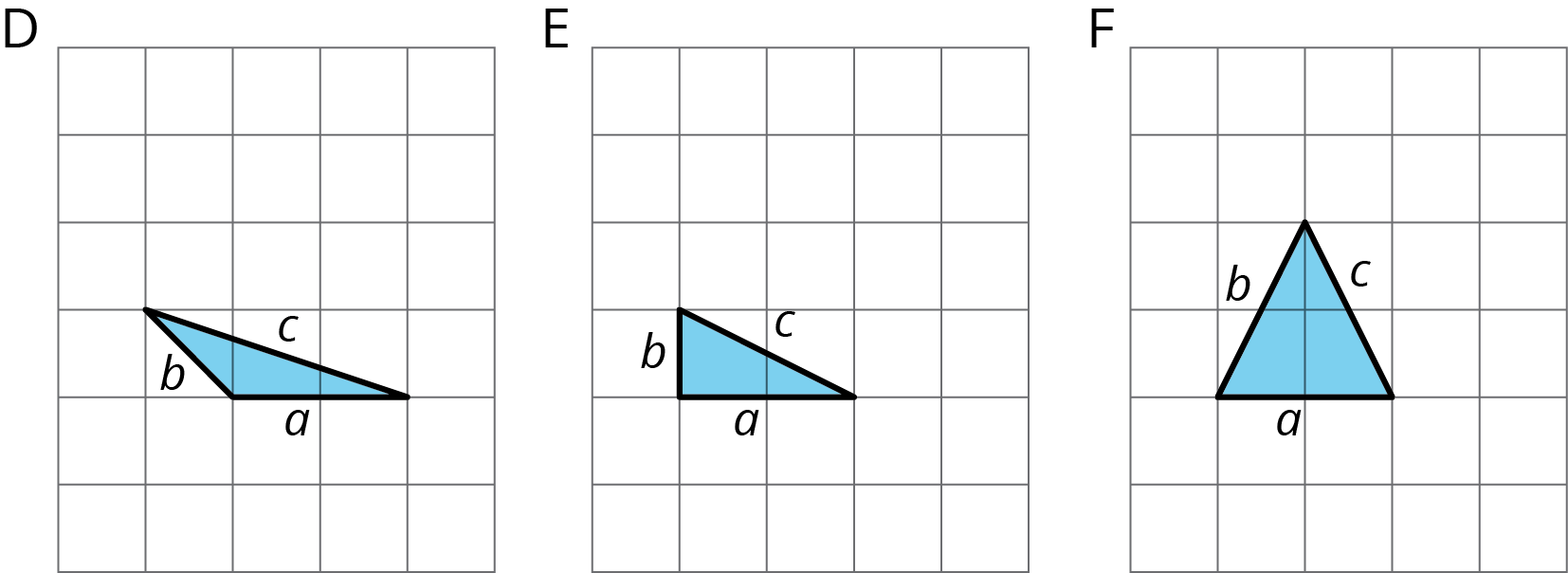
#### Images for Launch





#### Student Task Statement

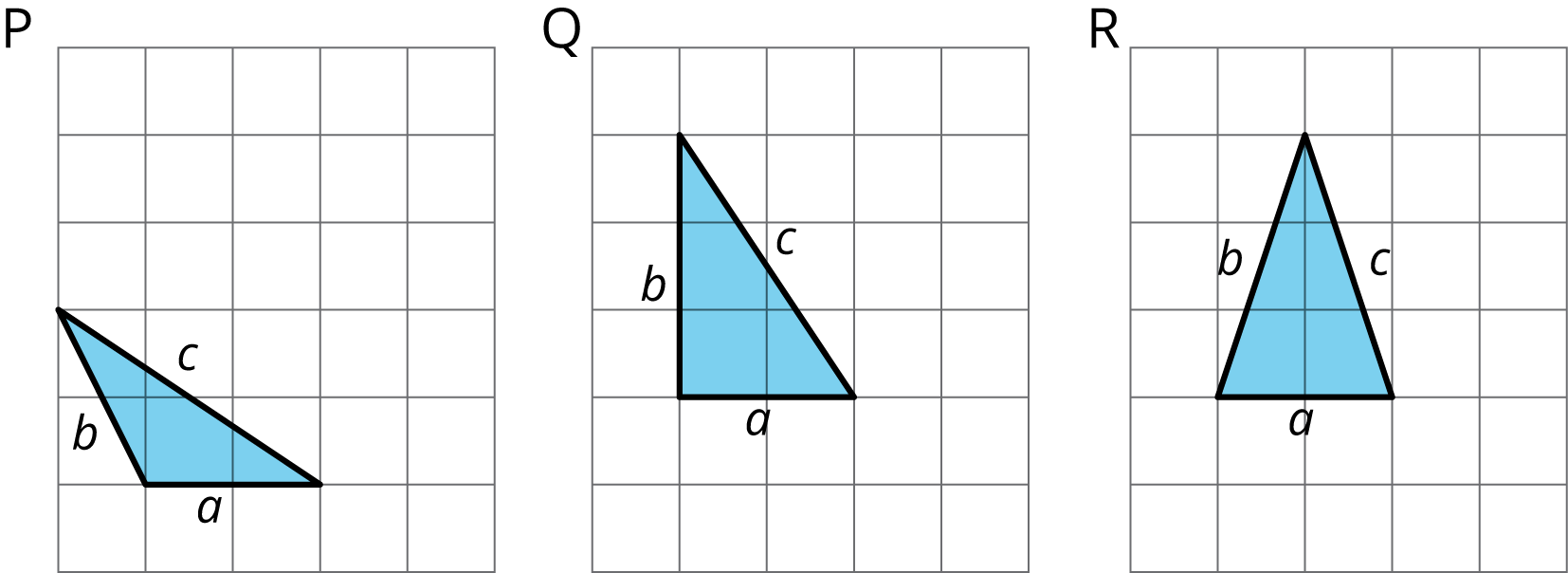
1. Complete the tables for these three triangles:

* 

| * triangle |  |  |  |
| --- | --- | --- | --- |
| * D |  |  |  |
| * E |  |  |  |
| * F |  |  |  |

| * triangle |  |  |  |
| --- | --- | --- | --- |
| * D |  |  |  |
| * E |  |  |  |
| * F |  |  |  |

1. What do you notice about the values in the table for Triangle E but not for Triangles D and F?
2. Complete the tables for these three more triangles:

* 

| * triangle |  |  |  |
| --- | --- | --- | --- |
| * P |  |  |  |
| * Q |  |  |  |
| * R |  |  |  |

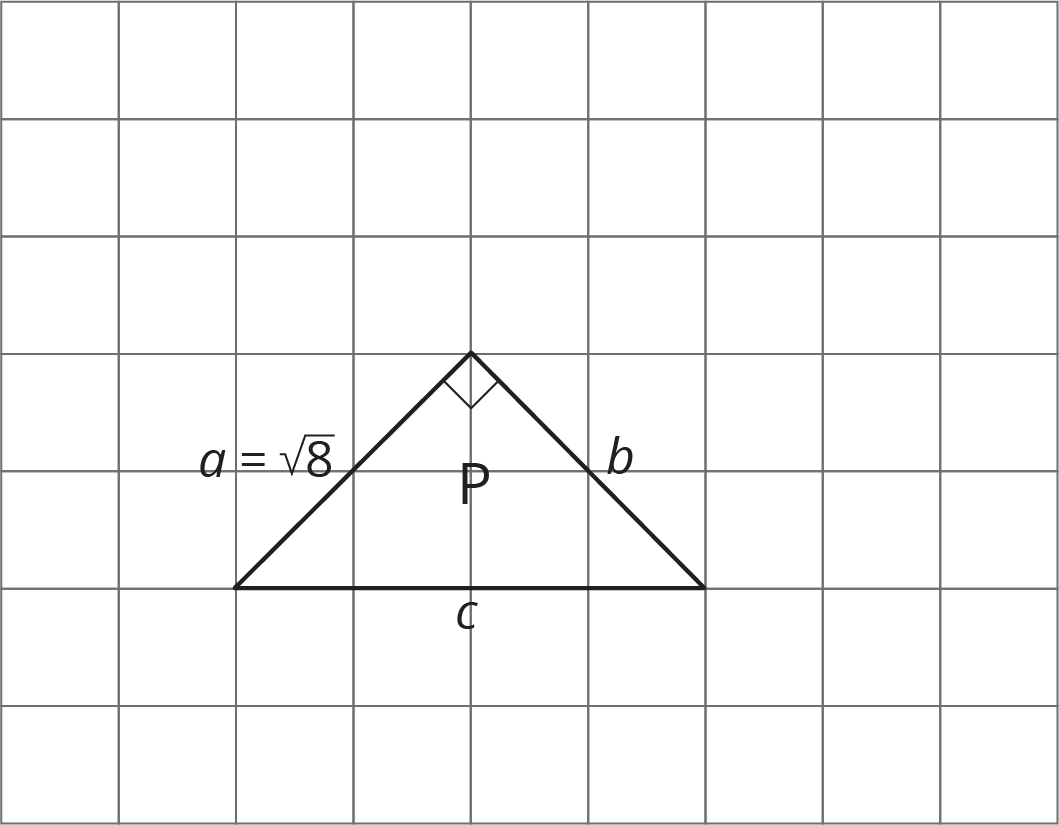
| * triangle |  |  |  |
| --- | --- | --- | --- |
| * P |  |  |  |
| * Q |  |  |  |
| * R |  |  |  |

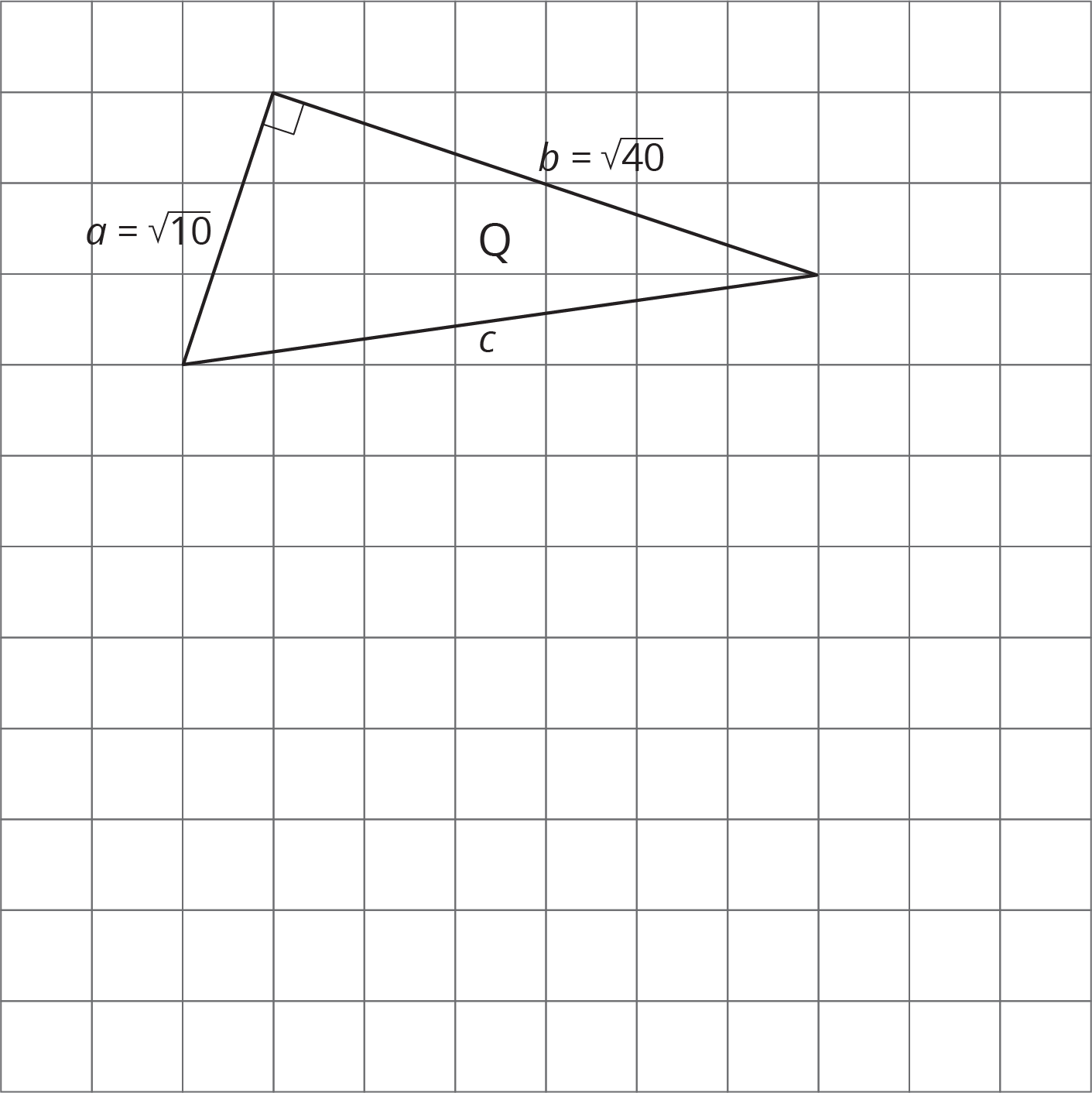
1. What do you notice about the values in the table for Triangle Q but not for Triangles P and R?
2. What do Triangle E and Triangle Q have in common?

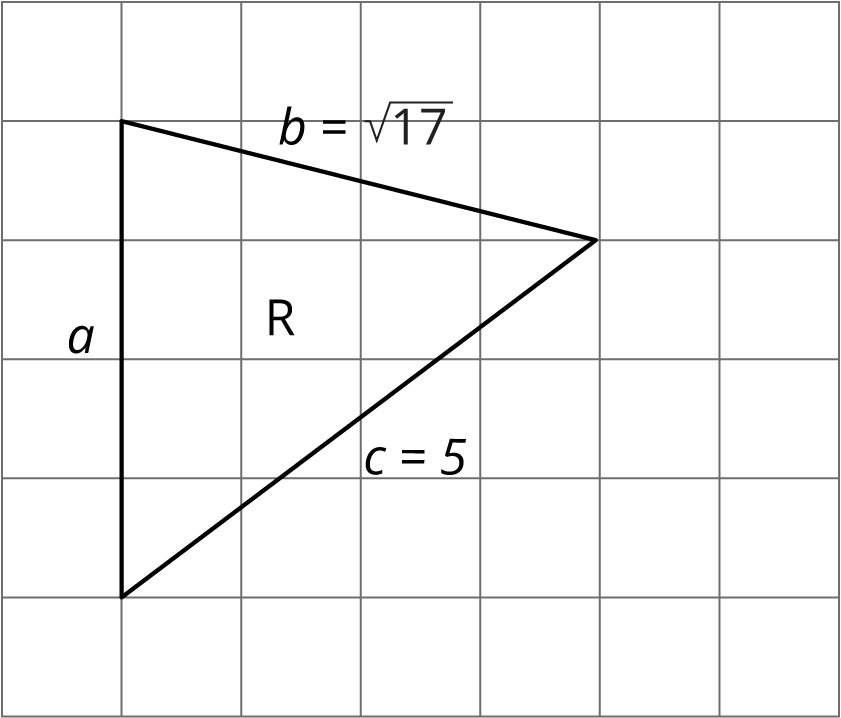
### 3 Meet the Pythagorean Theorem

#### Student Task Statement

1. Find the missing side lengths. Be prepared to explain your reasoning.
2. For which triangles does ?









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