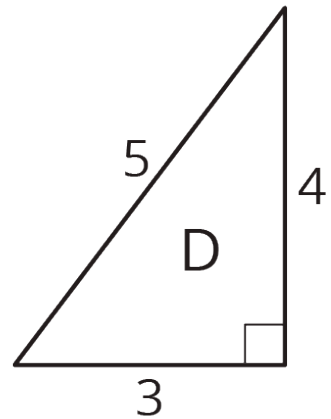
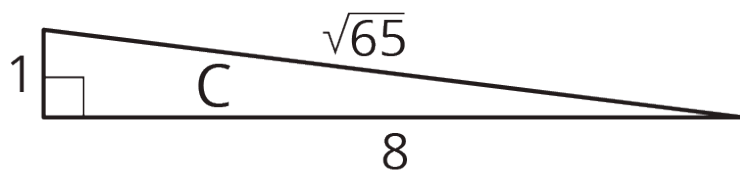
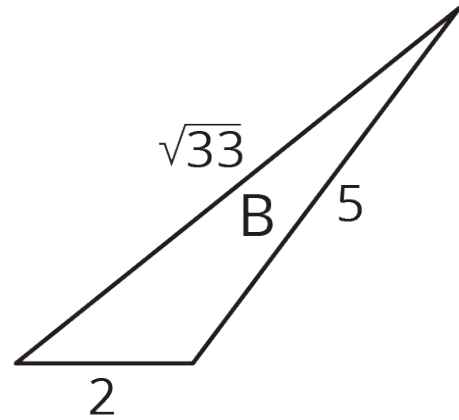
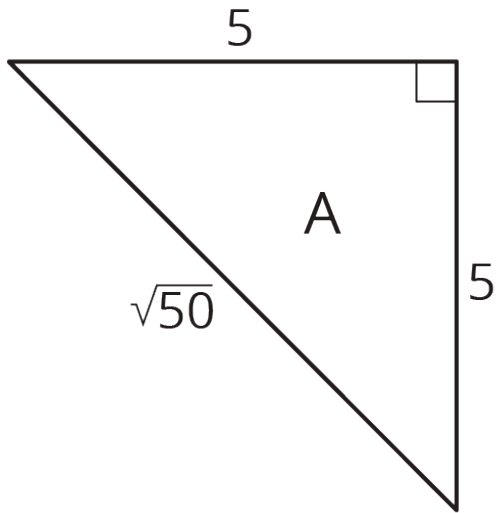


Unit 8 Lesson 6: Finding Side Lengths of Triangles

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

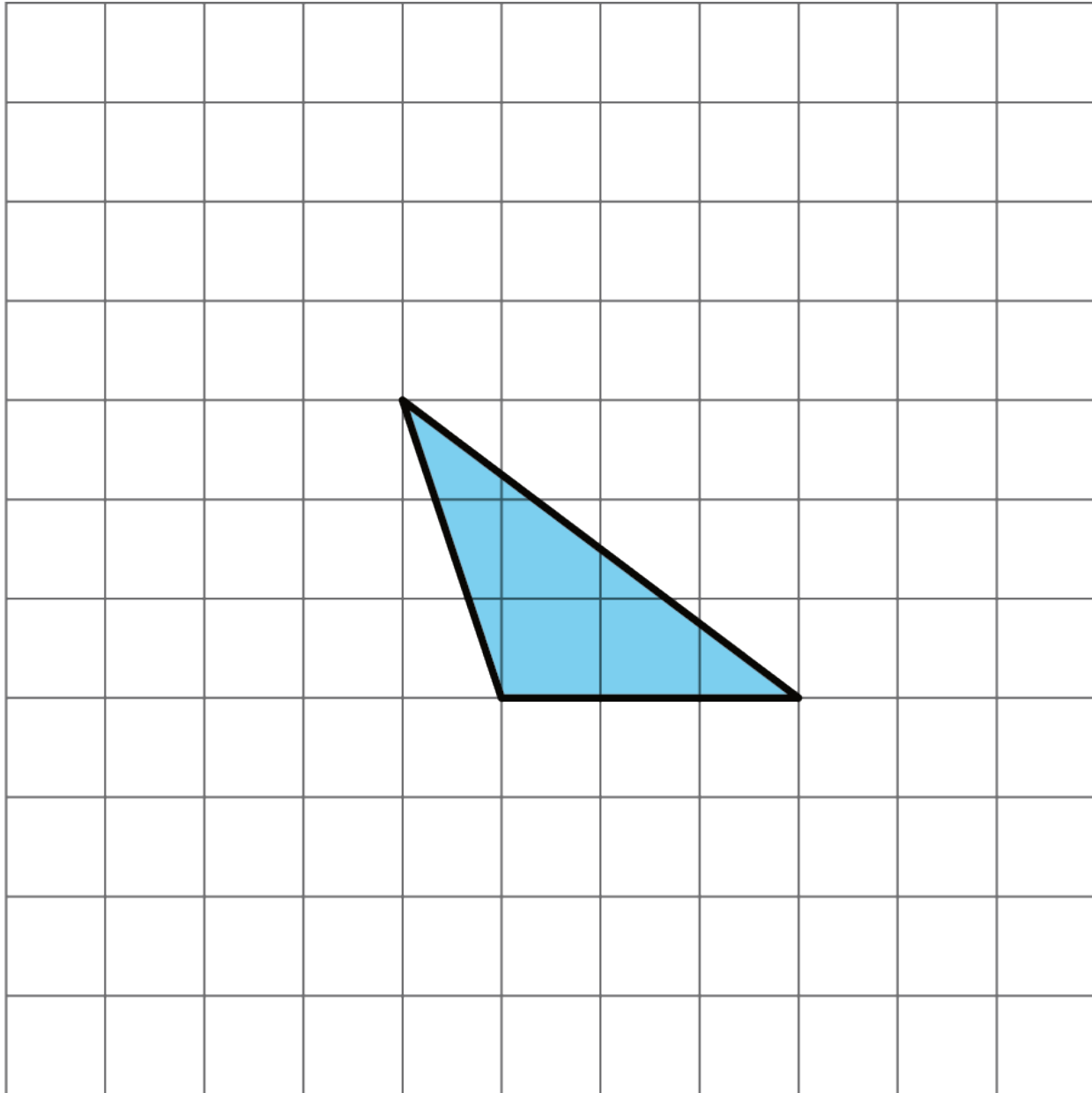
Student Task Statement

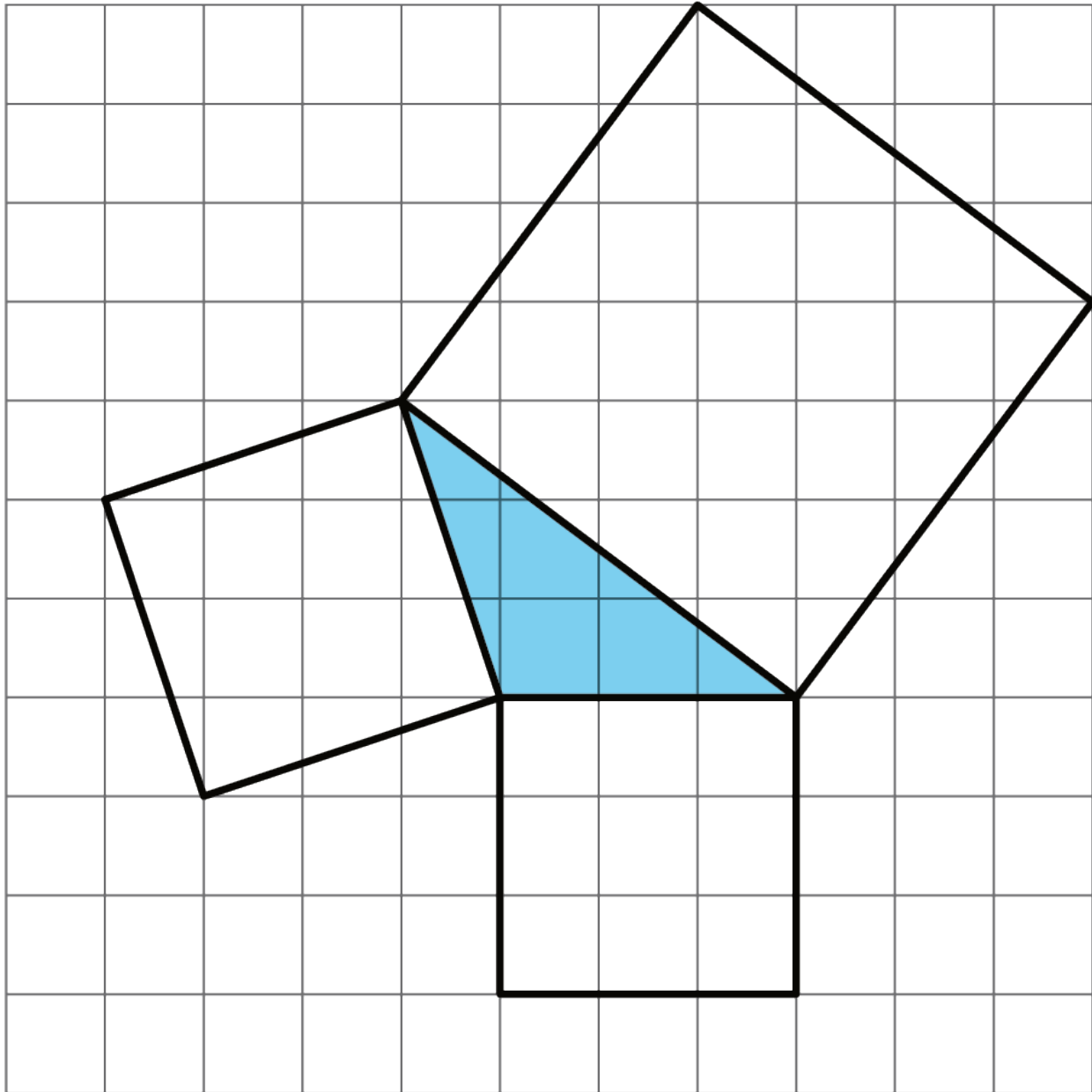
Which triangle doesn't belong?



2 A Table of Triangles

Images for Launch

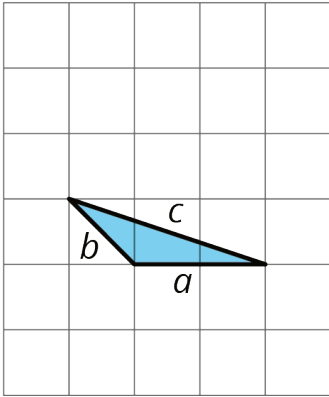




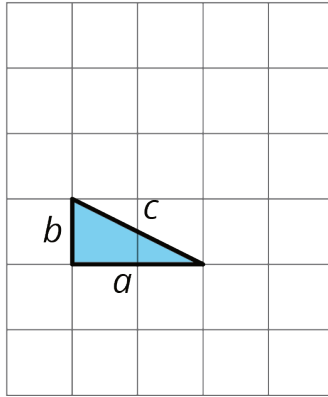
Student Task Statement

1. Complete the tables for these three triangles:

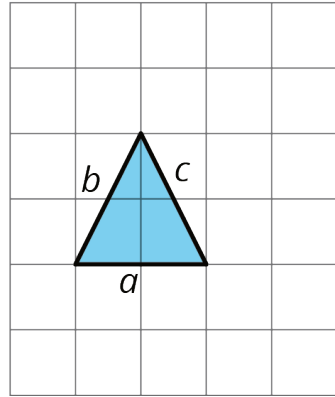
D



E



F

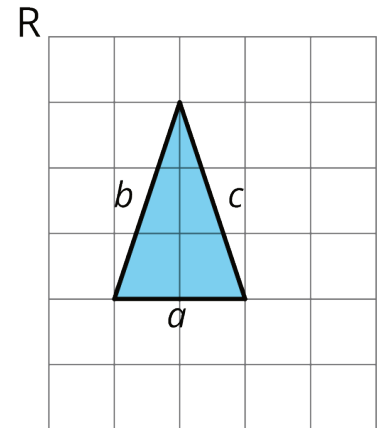
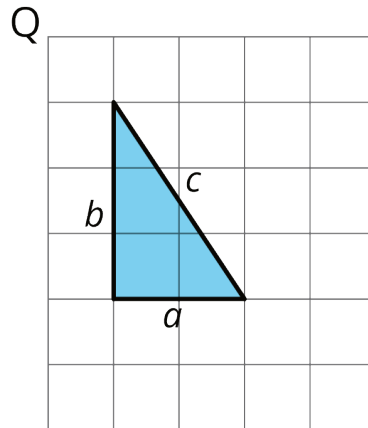
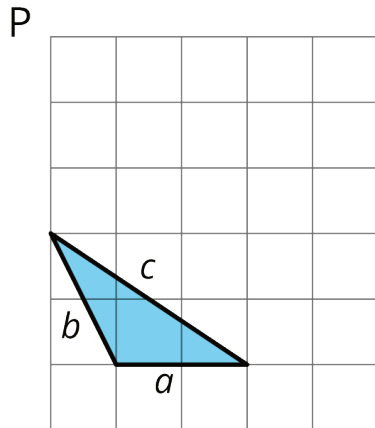


triangle	a	b	c
D			
E			
F			

triangle	a^2	b^2	c^2
D			
E			
F			

2. What do you notice about the values in the table for Triangle E but not for Triangles D and F?

3. Complete the tables for these three more triangles:



triangle	a	b	c
P			
Q			
R			

triangle	a^2	b^2	c^2
P			
Q			
R			

4. What do you notice about the values in the table for Triangle Q but not for Triangles P and R?

5. 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 $a^2 + b^2 = c^2$?

