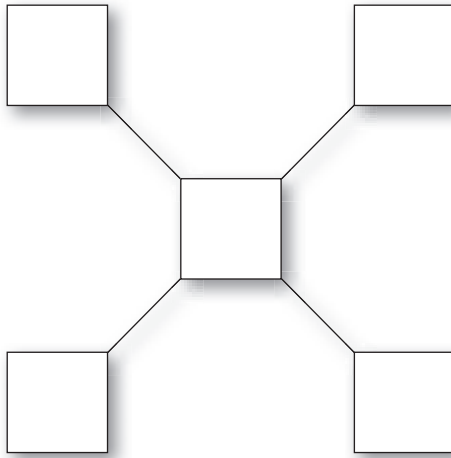
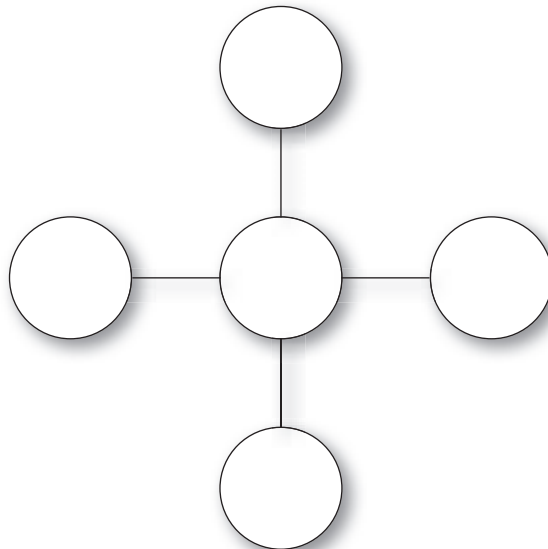


5. Fill in the squares with 1, 2, 3, 4, and 5 such that the sum along each diagonal line is 10.



Hint: How is this question related to questions 4 and 5?

6. Fill in the circles with 2, 3, 4, 5, and 6 such that the sum along each line is 11.



9. Roy is standing right in front of Sue. Paul is behind Sue and there are 2 students between them. Paul is the 12th student from the front of the line. How many students are in front of Roy?

_____ students are in front of Roy.

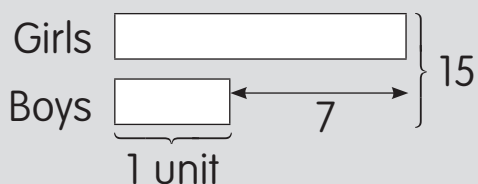
10. At a taxi stand, Jenny, who was in the 2nd position, switched places with a disabled man who was in the 9th position. After the man got into a taxi, how many taxis would have to leave before Jenny could get into one?

_____ taxis would have to leave.

Worked Example 3

There are 15 students. There are 7 fewer boys than girls. How many girls are there?

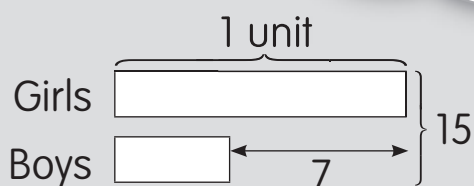
Method 1



From the model,
 $2 \text{ units} = 15 - 7 = 8$
 $1 \text{ unit} = 4$
 $1 \text{ unit} + 7 = 4 + 7 = 11$
There are **11** girls.

Method 2

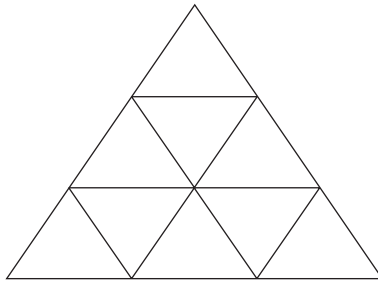
Number of boys + 7 = Number of girls
= 1 unit



From the model,
 $2 \text{ units} = 15 + 7 = 22 = 11 + 11$
 $1 \text{ unit} = 11$
 $1 \text{ unit} + 7 = 11 + 7 = 18$
There are **11** girls.

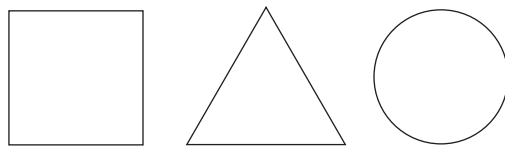


8. Count the number of triangles of all sizes in the figure below.



How many possible triangles are there in the figure? _____

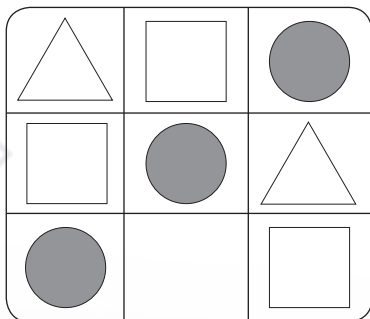
9. Samuel plans to arrange the following shapes in different rows where each row has the shapes in a different order.



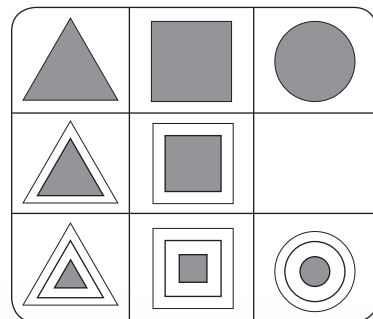
How many different rows are there? _____

10. What is the missing shape in each of the following diagrams?

(a)



(b)



9. In 1 minute, a black ant travels 5 units and a red ant travels 10 units. Each ant travels a length of 20 units. If both ants start at the same point and at the same time, each moving along the same route, how much longer will the black ant take to complete the journey after the red ant has arrived?

10. The total length of two strings is 18 units. One string is 6 units longer than the other. What is the length of the longer string?

Hint: Apply one of the methods in Worked Example 3.