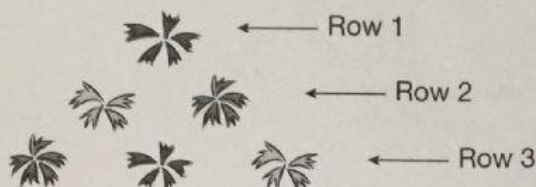


Apply Your Skills

Solve the problems.

- ② A theme park has a fireworks show every night. The show ends with a triangle of exploding stars, like the one below. How many stars will be needed for a triangle display made of 10 rows?



$$1 + 2 + 3 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

Answer _____

Recognize Marcos thinks that 10 stars will be needed. What did he forget to do?

- ③ A new ride just opened at the amusement park. The first day, 75 people went on the ride. The ride was popular and word spread. On the second day, 20 more people went on the ride than the day before. If the number of people who go on the ride increases by the same number each day, on what day will the total number of riders reach 575?

On Day 2, _____ people went on the ride.

On Day 3, _____ people went on the ride.

Answer _____

Determine How could you arrange the information to help you see a pattern?

Ask
Yourself

How many stars will be in the fourth row?

Hint Draw the next few rows to see the pattern.

Ask
Yourself

What was the total number of riders for the first 2 days? The first 3 days?

Hint The problem asks about the total number of riders, not the riders on one day.