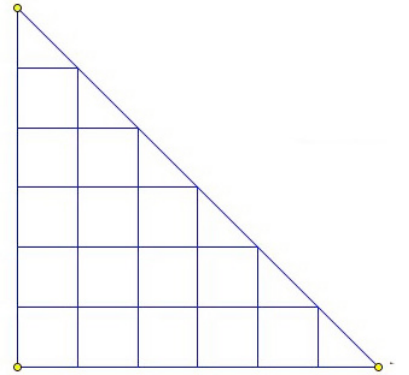


1. How many triangles are shown in the figure on the right?



2. If $a * b = 10 \times (b - a)$,
what is the value of $(1 * 2) * (3 * 4)$?



3. Four squirrels – Ash, Bob, Chip and Dan – found together 10 nuts. Each of them found at least one nut. Ash has found more nuts than Bob, as many as Chip, and fewer than Dan. How many nuts did Dan find?

4. There are knights and liars living on the island of Mumba-Yumba. The knights always tell the truth, while the liars always lie. A traveler met three islanders and asked each of them: “How many of your companions are knights?” The first one said: “None.” The second one said: “One.” What did the third one say?



5. A family approaches a bridge at night. The father can cross it in 1 minute, the mother in 2 minutes, the child in 5 minutes, and the grandmother in 10 minutes. The bridge can only bear the weight of two people at a time. They have one flashlight, and they are not allowed to go across the bridge without the flashlight or light the way from a distance. If two people are crossing the bridge they move with the slowest of their two speeds. How can they cross the bridge in the shortest time? Indicate this time and their plan of action.

