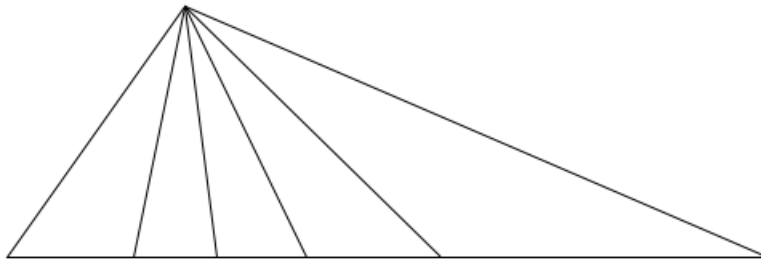


Winter 2012 Meeting 3

January 27, 2012

1. How many triangles can you find on the picture below?



Type of Triangles	Number of such Triangles

2. A circular chain is made up of 6 rings. If you cut and take out 1 ring, you get 2 pieces: one consists of 5 rings and the other is a single ring:

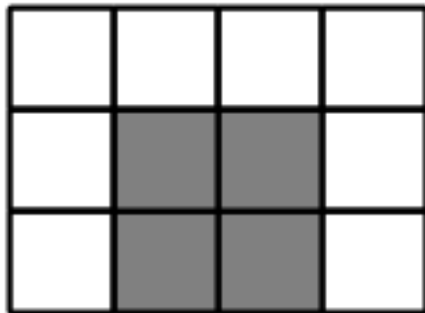
(a) How many pieces will you get if you take a 12 ring circular chain and cut 2 rings which are not next to each other?

(b) How many pieces will you get if you take the same circular chain and cut 3 rings which are not next to each other?

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3. Jane and Kate together have 20 dolls. Jane has 6 more dolls than Kate. How many dolls does each girl have?
4. John and Craig together have 40 cars. John has 6 more cars than Craig. How many cars does each boy have?
5. Alex and Ben together have 20 toy cars. Alex says that he has 5 more cars than Ben. Can this be the case? Why or why not?

6. Cut the image below into 4 equal parts. Make sure that

- All parts consist of the same number of squares;
- Each part has a shaded square;
- All parts have the same shape;



7. Ada, Bella and Cindy have some books:

- Bella has one more book than Ada;
- Cindy has one more book than Bella;
- Together, the three of them have 18 books.

How many books does each girl have?