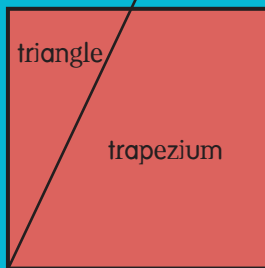


Creases and Cuts

Problem One

It cost Elsie \$5.90 to send party invitations by text or post to 16 friends. The invitations cost 50 cents to post and 20 cents to text. How many invitations did she post and how many did she text?

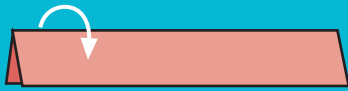


Problem Two

- a. What different shapes can you make by cutting through a square with one straight cut? For example, this cut gives a triangle and a trapezium.
- b. What shapes can you make with one straight cut through a regular hexagon?

Problem Three

A strip of paper is folded:



in half,



in half again,



and in half again.

How many creases will be in the paper strip when it is opened out?

Problem Four

At a Chinese banquet, one bowl of rice is served for every two guests, one bowl of soup for every three guests, and one bowl of meat for every four guests. Altogether, 39 serving bowls are used. Every guest has the same amount of rice, soup, and meat.

How many guests are at the banquet?