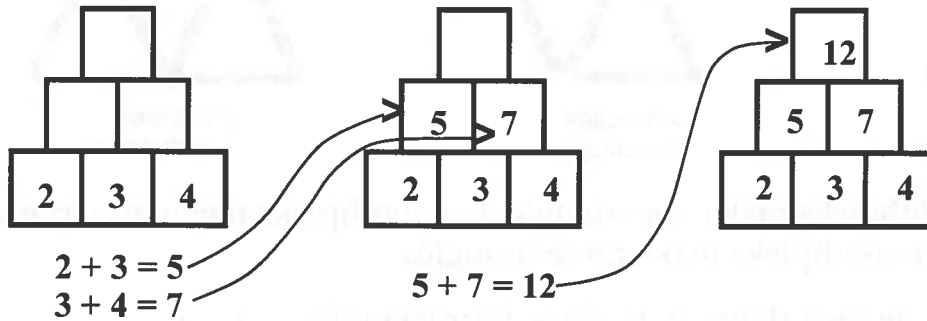


ADDITION PYRAMIDS

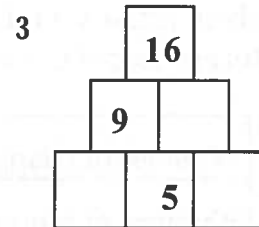
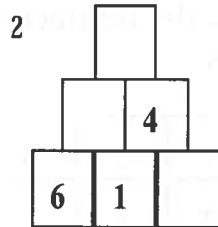
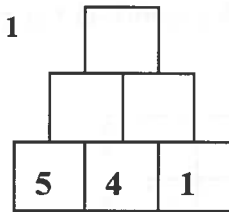
This problem gives you the chance to:

- use addition fact families to find unknown

In an addition pyramid each number is the total of the two numbers **below** it. For example:



Fill in the missing numbers in the addition pyramids below. Show how you figured them out.



TOOTHPICK TRIANGLES

This problem gives you the chance to:

- find a pattern in the number of toothpicks
- use the pattern to make a prediction

Lindsay uses toothpicks to make triangles in a row.



1 triangle
3 toothpicks



2 triangles
5 toothpicks



3 triangles
7 toothpicks

Three toothpicks make one triangle, five toothpicks make two triangles, and seven toothpicks make three triangles.

1. Draw the next diagram to show four triangles in a row.

2. Lindsay makes a table to show the number of toothpicks needed for rows of different numbers of triangles.

Number of triangles	1	2	3	4		
Number of toothpicks	3	5	7			

How many toothpicks are needed to make four triangles in a row?
Write your answer in Lindsay's table.

3. How many toothpicks are needed to make six triangles in a row?
Explain how you figured it out.

[7]

STAIRCASE

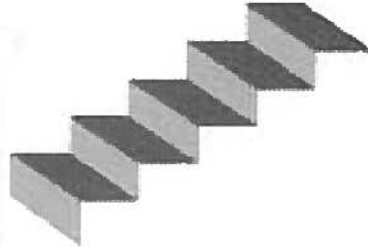
This problem gives you the chance to:

- find the height of a staircase
- find the distance from the bottom to the top of the staircase

Look at this staircase.

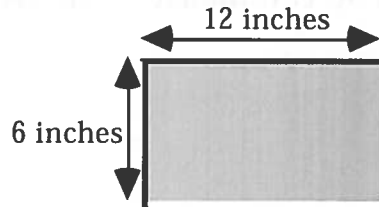
There are 5 steps.

Each step is 6 inches high.



1. How high is the staircase from top to bottom? _____
Explain.

2. Each step is 12 inches from front to back.



A snail crawls from the bottom to the top of the staircase.

How far does it travel? _____

Show how you figured it out

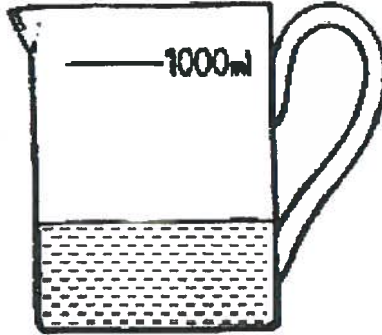
[5]

MEASURING THE WORLD

This problem gives you the chance to:

- use appropriate units of measurement

1. Estimate how much water there is in the jug. About _____ ml

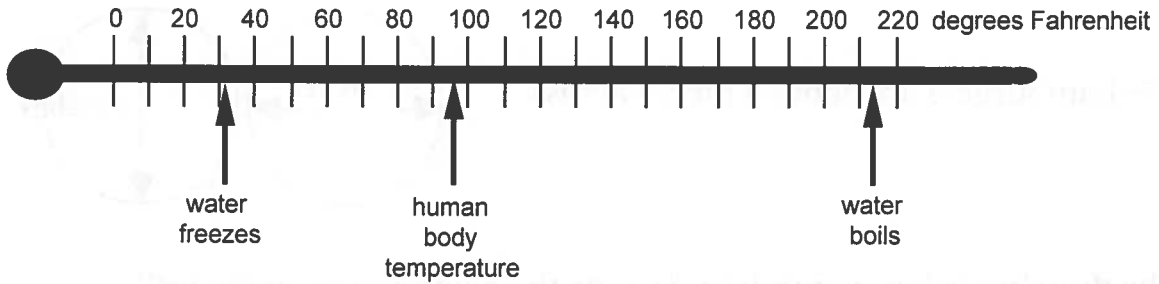


2. Use one of these words to complete each of the sentences below.

kilometers kilograms liters miles pounds gallons

- You can measure the distance between San Francisco and Santa Cruz in _____ .
- You can measure the amount of gas in a car in _____ .
- You can measure the weight of a bicycle in _____ .

3. Water freezes at 32 degrees Fahrenheit.
 Water boils at 212 degrees Fahrenheit.
 Human body temperature is a little less than 99 degrees Fahrenheit.



On this drawing of a thermometer show these temperatures:

10 70 155 205

Write words like 'warm', 'very cold', 'very hot', 'hot' to show how these temperatures feel. (8)

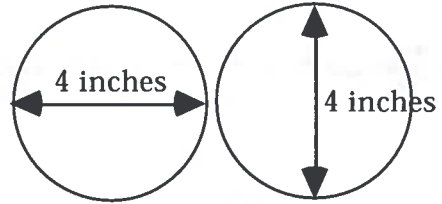
HAMBURGERS

This problem gives you the chance to:

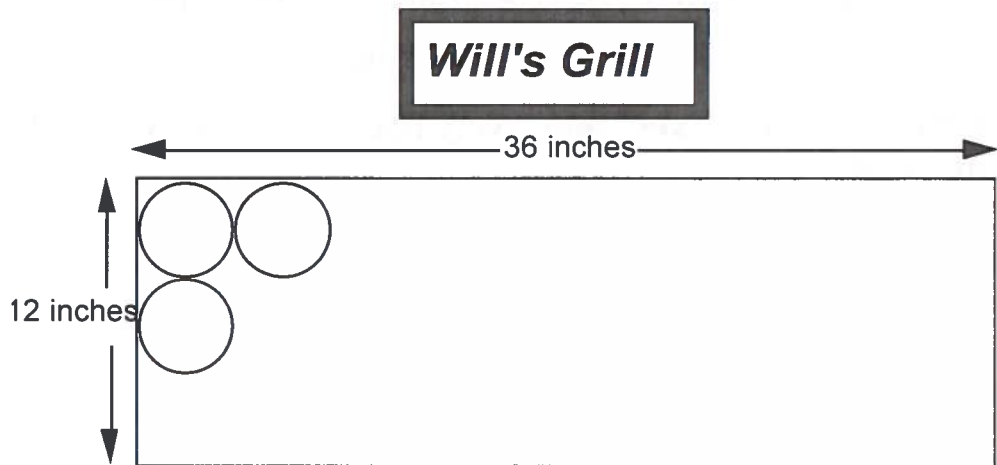
- find how many hamburgers can fit on Will's grill

Will cooks hamburgers on a grill that is 36 inches long and 12 inches wide.

His hamburgers are about 4 inches across.



The drawing below shows how he puts the hamburgers on the grill.



1. How many hamburgers can Will fit on this grill? _____

Use the drawing, and words, and numbers to show how you figured it out.

[6]