

Combining Sets of Data

- 1) 6 girls and 4 boys took a test.

The mean mark for the girls was 12.

The mean mark for the whole group was 10.

What was the mean mark for the boys?

- 2) Sally is travelling from town A to town B and then to town C.

The distance from A to B is 100 miles and her average speed for this part of the journey was 50 mph.

The total time for the whole journey was five hours. Her average speed for the whole journey was 32 mph.

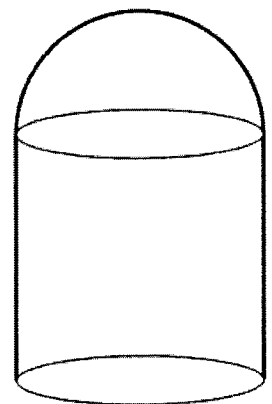
What was her average speed when she travelled from B to C?

- 3) A solid shape is made from a hemisphere placed on top of a cylinder. The two parts are made of different materials.

The volume of the cylinder is 4 m^3 and it is made from a material of density 50 kg/m^3 .

The mass of the hemisphere is 160 kg and it is made from a material of density 80 kg/m^3 .

What is the density of the combined shape?



- 4) In a test section A has 80 marks and section B 120 marks.

Riya scores 55% in section A and 70% in section B.

To pass, Riya needs 65% of the TOTAL MARKS. Does she pass?