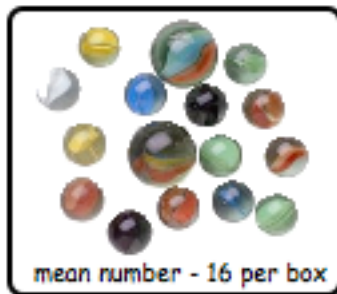# MEAN PROBLEMS

1   The mean weight of two
    crates is 26 kilograms.
    If one of the crates weighs
    19 kg, what must the weight
    of the other crate be ?

2   The mean age of four children
    is 13 years old. Three of the
    childrens' ages are 9, 12 and
    16. What is the age of the
    fourth child ?

3

mean number - 16 per box

The contents of ten boxes
of marbles are examined.
The boxes contain the
following marbles : –

15, 17, 13, 16, 14,
15, 14, 14, 17, 15.

(a) Why is the manufacturer's
    claim incorrect ?

(b) An eleventh box is
    examined. How many
    marbles would need to be
    in that box in order for
    the manufacturer's claim
    to then be considered to
    be correct ?

4   The mean age of a group of eight
    girls was 15. One more girl
    joined the group and the mean
    age became 14. How old was the
    ninth girl ?

5   A group of five people at a
    meeting have a mean age of
    32 years. When a sixth
    person joins the meeting,
    the mean age then increases
    to 35 years. What is the age
    of that sixth person ?

6   At an archery contest the
    mean score for the first
    nine contestants was 27.
    Contestant number ten
    pushed the mean score up to
    29. What must contestant
    number ten have scored ?

7   At a bowling alley the mean
    score of the six children was
    127. The mean score of the five
    adults with them was 139.
    Calculate the mean score of the
    whole eleven in the group.

8   Megan's dad will give her £50 if
    she can get a mean score of at
    least 75% for her five Maths
    tests this year. In her first four
    tests Megan scored : 71%, 66%
    82% and 54%. Can Megan
    possibly do well enough to get
    the £50 ? (Explain !!)