

Timester Challenge Reverse Averages



A magician is planning a magic trick with 4 cards numbered with some digits between 1-9, however he wants to make the pack biased.

He wants the mode of the 4 cards to be 7, the range to be 4 and a mean of 5.5.

Complete the cards with a possible solution.



Josie and five other women ran a race.

The times, in minutes, of the 5 other women are shown.

136 124 147 103 155

The mean time for all six women was 130.5 minutes.

Did Josie win the race.

You must show your working.

At a day care centre, the mean age of 8 children is $3\frac{1}{8}$ years.

Kaye joins the nursery.

The mean age of all children is now 3 years. Work out the age of Kaye.









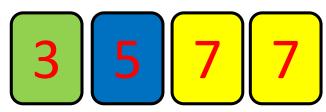
Timester Challenge Reverse Averages Answers



A magician is planning a magic trick with 4 cards numbered with some digits between 1-9, however he wants to make the pack biased.

He wants the mode of the 4 cards to be 7, the range to be 4 and a mean of 5.5.

Complete the cards with a possible solution.



$$5.5 \times 4 = 22$$

(22 - 7 - 7 - 3 = 5)



Josie and five other women ran a race.

The times, in minutes, of the 5 other women are shown.

136 124 147 103 155

The mean time for all six women was 130.5 minutes.

Did Josie win the race.

You must show your working.

$$136 + 124 + 147 + 103 + 155$$

= 665 minutes

 $130.5 \times 6 = 783$ minutes

Josie = 783 - 665 = 118 minutes Silver

At a day care centre, the mean age of 8 children is $3\frac{1}{8}$ years.

Kaye joins the nursery.

The mean age of all children is now 3 years. Work out the age of Kaye.

$$3\frac{1}{8} \times 8 = 25 \text{ years}$$

$$3 \times 9 = 27$$
 years

$$Kaye = 27 - 25 = 2 years$$

