

NAME: _____

DATE _____

Problem Solving Venn Diagrams

Question 3:

The Beauty Parlour at the mall has 25 beauty technicians. 19 can do Hair, 10 can do Mani-/Pedicures, some can do both. Calculate how many technicians can do both Hair and Mani-Pedicures.

Solution: Fill in the spaces with the information given.

No. of beauty technicians, $U =$ _____

No. of technicians for Hair, $n(H) =$ _____

No. of technicians for Mani-/Pedicures, $n(MP) =$ _____

No. of technicians for both, $n(H \cap MP) = n$

$U =$ _____

$$__ - x + x + __ - x = 25$$

$$__ + __ + __ - x = 25$$

$$__ - x = 25$$

$$n = __ - __ = __ \text{ employees}$$

a) $n(H \cap MP) =$ _____ employees

