

1. Use a Venn Diagram and shading to show  $A' \cap B$

2. A survey of guests on the Kelly Clarkson show revealed the following:

16 meditate

23 exercise

19 write in their journal

7 meditate and exercise and journal

9 exercise but don't meditate and don't journal

11 exercise and journal

2 meditate and journal but don't exercise

10 don't meditate, don't exercise and don't journal

How many...

1. ...were surveyed?

2. ...meditate and exercise?

3. ...exercise or journal?

4. ...engage in exactly one of these activities?

3. If  $n(A) = 20$ ,  $n(B) = 13$  and  $n(A \cap B) = 4$ , what is  $n(A \cup B)$  ?