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| **Set Notation and Venn Diagrams** |
| In each question, the values represent the number of elements in each set. |
| **(a)** | **(b)** | **(c)** |
| Diagram, venn diagram  Description automatically generatedWrite down:(a) $n\left(A∩B\right)$ (b) $n(A)$(c) $n(B^{'})$ (d) $n(ξ)$ | Diagram, venn diagram  Description automatically generatedWrite down:(a) $n(B)$ (b) $n(A')$(c) $n(A∪B)$ (d) $n(A∩B')$  | Diagram, venn diagram  Description automatically generatedWrite down:(a) $n(A∩B)$ (b) $n(A')$(c) $n\left(ξ\right) $(d) $n(A'∩B')$  |
| **(d)** | **(e)** | **(f)** |
| $$n\left(A∩B\right)=5 $$$$n\left(A\right)=13$$$$n\left(A∪B\right)=16 $$ $n\left(ξ\right)=20$Draw a Venn diagram to represent this information. | $$n\left(A∩B\right)=7 $$$$n\left(A\right)=13$$$n\left(B\right)=10$ $$n\left(B'\right)=10$$Draw a Venn diagram to represent this information. | $n\left(A∩B\right)=10 $ $$n\left(A∪B\right)=18$$$$n\left(A\right)=13$$$$n\left(ξ\right)=20$$Draw a Venn diagram to represent this information. |
| **(g)** | **(h)** | **(i)** |
| $$n\left(A∪B\right)=20$$$$n\left(A'\right)=15$$$$n\left(A∩B\right)=6$$$$n\left(B\right)=16$$Draw a Venn diagram to represent this information. | $$n\left(B\right)=7$$$$n\left(A\right)=10$$$n\left(A∪B\right)=12$ $$n\left(ξ\right)=20$$Draw a Venn diagram to represent this information. | $$n\left(A'∩B'\right)=10$$$ $ $n\left(ξ\right)=25$$$n\left(B\right)=11$$$$n\left(A\right)=8$$Draw a Venn diagram to represent this information. |