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| **Sets and Venns Revision** |
| **(a)** | **(b)** | **(c)** | **(d)** |
| $$ξ=\left\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\right\}$$$$A=\{1, 2, 3, 4, 5, 6\}$$$$B=\left\{even numbers\right\}$$List the members of $A∩B$ | $$ξ=\left\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\right\}$$$$A=\{factors of 9\}$$$$B=\left\{multiples of 4\right\}$$List the members of $A∪B$ | $$ξ=\left\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\right\}$$$$A=\{factors of 9\}$$$$B=\left\{multiples of 4\right\}$$Anna says that $A∩B=∅.$ Is she correct? | $$A=\{1, 3, 5, 7, 9\}$$$$A∩B=\left\{1, 3\right\}$$$$A∪B=\{0, 1, 2, 3, 4, 5, 7, 9\}$$List the members of $B$ |
| **(e)** | **(f)** | **(g)** | **(h)** |
| Shade the region which represents $A∩B'$A diagram of two circles  Description automatically generated | Shade the region which represents $A'∪B$A diagram of two circles  Description automatically generated | Show in a Venn diagram.$$ξ=\left\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\right\}$$$$A=\left\{1, 4, 9, 10\right\} $$$$B=\left\{2, 4, 6, 8, 10\right\}$$A diagram of two circles  Description automatically generated | List the members of $B'$ and $A'∩B'$A diagram of circles and numbers  Description automatically generated |
| **(i)** | **(j)** |
| In a group of 20 students, 11 like Maths and 10 like English. 2 like neither subject. (a) Complete the Venn diagram.(b) How many students like Maths but not English? | A diagram of a diagram of a person's relationship  Description automatically generated with medium confidence | There are 32 students in a class. 21 students like Spanish and 15 like Geography. There are twice as many students who like both subjects as like neither. (a) Complete the Venn diagram.(b) How many students like only Spanish? | A diagram of a circle  Description automatically generated with medium confidence |