# List of sets (for work with Attribute Pieces)

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|---|---|
| Set L | is the set of all **large** pieces |
| Set S | is the set of all **small** pieces |
| Set Y | is the set of all **yellow** pieces |
| Set R | is the set of all **red** pieces |
| Set B | is the set of all **blue** pieces |
| Set H | is the set of all **hexagons** |
| Set T | is the set of all **triangles** |
| Set Q | is the set of all **squares** |
| Set C | is the set of all **circles** |
| Set ST | is the set of all small triangles |
| Set BT | is the set of all blue triangles |
| Set BH | has all blue hexagons |
| Set BC | has all blue circles |
| Set BQ | has all blue squares |
| Set LQ | has all large squares |
| Set NR | is the set of all pieces which are not red |
| Set NT | is the set of all pieces which are not triangles |
| Set M | is the set of two pieces: SRT and SBT |
| Set O | contains all small blue pieces which are neither circles, squares nor triangles |
| Set P | contains all hexagonal pieces that are neither blue nor red |
| Set X | is the set of all small pieces that are neither circles, squares nor hexagons |

Which of the following pairs of sets of attribute pieces are equal, disjoint or one is a subset of another (or neither case)? Write the relationships using symbols $\subseteq$, $\subset$, $=$, $\supset$, $\supseteq$ or write that the sets are disjoint. Find also if the sets are equivalent.

- T & BT
- L & M
- BT & M
- BH & O
- L & S
- P & Y
- ST & R
- S & M

Find the resulting set in each of the following cases (if it is not possible to describe it by letters, use words). How many elements does it have? Draw Venn diagrams if necessary.

$L \cap R =$

$S \cup L =$

$S \cap L =$

$BT \cup BH \cup BC \cup BQ =$

$H - NR =$

$\overline{NR} =$

$(L - R) - Y =$

$M \cap R =$

$(M \cup BT) - \overline{B} =$