

List of sets (for work with Attribute Pieces)

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 BT	is the set of all <u>blue triangles</u>
Set BH	has all <u>blue hexagons</u>
Set BC	has all <u>blue circles</u>
Set BQ	has all <u>blue squares</u>
Set LQ	has all <u>large squares</u>
Set NR	is the set of all pieces which are <u>not red</u>
Set NT	is the set of all pieces which are <u>not triangles</u>
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)? Find also if the sets are equivalent Write the relationships using symbols \subset , $=$, \supset , \sim or write that the sets are disjoint..

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

Find the resulting set in each of the following cases (you may list all the elements, or clearly describe the sets). How many elements does it have? Draw Venn diagrams if necessary.

$$L \cap R =$$

$$S \cup L =$$

$$S \cap L =$$

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

$$H - NR =$$

$$\overline{NR} =$$

$$(L - R) - Y =$$

$$M \cap R =$$
