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MGF / Identifying equivalent and equal sets

Problem Explanation

Identifying equivalent and equal sets

QUESTION

For each pair of sets, choose the best description.

Pair of sets	Description
(a) A is the set of even numbers greater than 11 and less than 17. B is the set of integers greater than 3 and less than 7.	☒ equivalent but not equal ☐ equal but not equivalent ☐ both equivalent and equal ☐ neither equivalent nor equal
(b) A is the set of integers greater than 4 and less than 8. $B = \{5, 6, 7\}$ $A = \{5, 6, 7\}$ The exact same	☐ equivalent but not equal ☐ equal but not equivalent ☒ both equivalent and equal ☐ neither equivalent nor equal
(c) $A = \{44, 45, 46, 47\}$ $n(A) = 4$ $B = \{23, 24, 25, 26\}$ $n(B) = 4$ Not the same	☒ equivalent but not equal ☐ equal but not equivalent ☐ both equivalent and equal ☐ neither equivalent nor equal
(d) $A = \{c, g, i\}$ $n(A) = 3$ $B = \{n, p, q, r\}$ $n(B) = 4$ Not the same	☐ equivalent but not equal ☐ equal but not equivalent ☐ both equivalent and equal ☒ neither equivalent nor equal

equal = EXACTLY the same
equivalent = the same number of elements

Show Another

Not the same
 $A = \{12, 14, 16\}$
 $B = \{4, 5, 6\}$
 $n(A) = 3$
 $n(B) = 3$

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