

## Complement of Sets

- A) 1) If  $U = \{\text{box, pen, pencil, ruler, sharpner, eraser}\}$ ,  $G = \{\text{pencil, eraser}\}$ , and  $H = \{\text{box, pen, ruler}\}$ , find  $G' \cap H$ .

$G' \cap H =$  \_\_\_\_\_

# PREVIEW

- 2) If  $U = \{5, 15, 25, 35, 45, 55, 65, 75, 85, 95\}$ ,  $Y = \{5, 25, 45, 65, 85\}$ , and  $Z = \{30, 25, 55, 83\}$ , find  $U \setminus Z$ .

$Y \cup Z =$  \_\_\_\_\_

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- 3) If  $U = \{a, b, c, d, e, f, g, h, m, n, t\}$ ,  $J = \{b, c, e, t, m, f\}$ , and  $K = \{a, b, e, n, d\}$ , find  $J \cap K$ .

$J' \cap K =$  \_\_\_\_\_

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- B) If  $U = \{-4, -24, 4, 24, 36, 48, 60, 72, 84, 96\}$ ,  $A = \{-4, 24, 48, 72, 96\}$ ,  $B = \{4, 36, 60, 84\}$ ,  $C = \{-4, 36, 60, 96\}$ , and  $D = \{4, 24, 48, 84\}$ , find  $(C \cup D)'$  and  $(C \cap D)'$ .

$C \cup D =$  \_\_\_\_\_

$(C \cup D)' =$  \_\_\_\_\_

$(C \cap D)' =$  \_\_\_\_\_

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