Step 1: List all pairs in $A \times A$

$A = \{13, 23, 28, 30, 60\}$

$R = \{(a,b) \in A \times A : a|b\}$

$A \times A = \{(13,13), (13,23), (13,28), (13,30), (13,60),$
$(23,13), (23,23), (23,28), (23,30), (23,60),$
$(28,13), (28,23), (28,28), (28,30), (28,60),$
$(30,13), (30,23), (30,28), (30,30), (30,60),$
$(60,13), (60,23), (60,28), (60,30), (60,60)\}$

STEP 2: Check each pair for divisibility

- Go through each pair and ask "does a divide b"

$A \times A = \{(13,13), (13,23), (13,28), (13,30), (13,60),$
$(23,13), (23,23), (23,28), (23,30), (23,60),$
$(28,13), (28,23), (28,28), (28,30), (28,60),$
$(30,13), (30,23), (30,28), (30,30), (30,60),$
$(60,13), (60,23), (60,28), (60,30), (60,60)\}$

Step 3: Combine remaining pairs for final answer:

$$R = \boxed{\{(13,13), (23,23), (28,28), (30,30), (30,60), (60,60)\}}$$