

A. 1. Relation = $\{(1,20)\checkmark,(2,40)\checkmark,(3,60)\checkmark,(4,80)\checkmark\}$

X	1	2	3	4 🗸
У	20	40	60	8o √

B. For each relation, determine the domain, range, and kind of pairing.

- 1. $\{(0, 2), (1, 3), (2, 4), (3, 5), (4,6)\}$ $D = \{0, 1, 2, 3, 4\} \checkmark$, $R = \{2, 3, 4, 5, 6\} \checkmark$ One-to-one correspondence \checkmark
- 2. $\{(0, 2), (0,4), (0, 6), (0, 8), (0, 10)\}$ $D = \{0\} \checkmark, R = \{2,4,6,8,10\} \checkmark$ One-to-many correspondence \checkmark
- 3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)} $D = \{-5, -2, 1, 4, 7\} \checkmark, R = \{-2, 0, 2\} \checkmark$ Many-to-one correspondence \checkmark

- B. For each relation, determine the domain, range, and kind of pairing.
 - 1. $\{(0, 2), (1, 3), (2, 4), (3, 5), (4,6)\}$ $D = \{0, 1, 2, 3, 4\} \checkmark$, $R = \{2, 3, 4, 5, 6\} \checkmark$ One-to-one correspondence \checkmark
 - 2. $\{(0, 2), (0,4), (0, 6), (0, 8), (0, 10)\}$ $D = \{0\} \checkmark, R = \{2,4,6,8,10\} \checkmark$ One-to-many correspondence \checkmark
 - 3. $\{(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)\}$ $D = \{-5, -2, 1, 4, 7\}$, $R = \{-2, 0, 2\}$, Many-to-one correspondence.

20 | 40 | 60 | 80 🗸

A. 1. Relation =
$$\{(1,20)\checkmark, (2,40)\checkmark, (3,60)\checkmark, (4,80)\checkmark\}$$

- B. For each relation, determine the domain, range, and kind of pairing.
 - 1. $\{(0, 2), (1, 3), (2, 4), (3, 5), (4,6)\}$ $D = \{0, 1, 2, 3, 4\} \checkmark$, $R = \{2, 3, 4, 5, 6\} \checkmark$ One-to-one correspondence \checkmark
 - 2. $\{(0, 2), (0,4), (0, 6), (0, 8), (0, 10)\}$ $D = \{0\} \checkmark$, $R = \{2,4,6,8,10\} \checkmark$ One-to-many correspondence \checkmark
 - 3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)} $D = \{-5, -2, 1, 4, 7\} \checkmark, R = \{-2, 0, 2\} \checkmark$ Many-to-one correspondence \checkmark

- B. For each relation, determine the domain, range, and kind of pairing.
 - 1. $\{(0, 2), (1, 3), (2, 4), (3, 5), (4,6)\}$ $D = \{0, 1, 2, 3, 4\} \checkmark$, $R = \{2, 3, 4, 5, 6\} \checkmark$ One-to-one correspondence \checkmark
 - 2. $\{(0, 2), (0,4), (0, 6), (0, 8), (0, 10)\}$ $D = \{0\} \checkmark$, $R = \{2,4,6,8,10\} \checkmark$ One-to-many correspondence \checkmark
 - 3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)} $D = \{-5, -2, 1, 4, 7\} \checkmark, R = \{-2, 0, 2\} \checkmark$ Many-to-one correspondence \checkmark

A. 1. Relation = $\{(1,20)\checkmark,(2,40)\checkmark,(3,60)\checkmark,(4,80)\checkmark\}$

 X
 1
 2
 3
 4 √

 Y
 20
 40
 60
 80 √

- B. For each relation, determine the domain, range, and kind of pairing.
 - 1. $\{(0, 2), (1, 3), (2, 4), (3, 5), (4,6)\}$ $D = \{0,1,2,3,4\}\checkmark$, $R = \{2,3,4,5,6\}\checkmark$ One-to-one correspondence \checkmark
 - 2. $\{(0, 2), (0,4), (0, 6), (0, 8), (0, 10)\}$ $D = \{0\} \checkmark, R = \{2,4,6,8,10\} \checkmark$ One-to-many correspondence \checkmark
 - 3. $\{(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)\}$ $D = \{-5, -2, 1, 4, 7\} \checkmark$, $R = \{-2, 0, 2\} \checkmark$ Many-to-one correspondence \checkmark

A. 1. Relation = $\{(1,20)\checkmark, (2,40)\checkmark, (3,60)\checkmark, (4,80)\checkmark\}$

X	1	2	3	4 🗸
У	20	40	60	8o √

- B. For each relation, determine the domain, range, and kind of pairing.
 - 1. $\{(0, 2), (1, 3), (2, 4), (3, 5), (4,6)\}$ $D = \{0, 1, 2, 3, 4\} \checkmark$, $R = \{2, 3, 4, 5, 6\} \checkmark$ One-to-one correspondence \checkmark
- 2. $\{(0, 2), (0,4), (0, 6), (0, 8), (0, 10)\}$ $D = \{0\} \checkmark$, $R = \{2,4,6,8,10\} \checkmark$ One-to-many correspondence \checkmark
- 3. $\{(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)\}$ $D = \{-5, -2, 1, 4, 7\} \checkmark, R = \{-2, 0, 2\} \checkmark$ Many-to-one correspondence \checkmark

A. 1. Relation = $\{(1,20), (2,40), (3,60), (4,80), \}$

Х	1	2	3	4 🗸
У	20	40	60	8o √

- B. For each relation, determine the domain, range, and kind of pairing.
 - 1. $\{(0, 2), (1, 3), (2, 4), (3, 5), (4,6)\}$ $D = \{0, 1, 2, 3, 4\} \checkmark$, $R = \{2, 3, 4, 5, 6\} \checkmark$ One-to-one correspondence \checkmark
 - 2. $\{(0, 2), (0,4), (0, 6), (0, 8), (0, 10)\}$ $D = \{0\} \checkmark$, $R = \{2,4,6,8,10\} \checkmark$ One-to-many correspondence \checkmark
 - 3. $\{(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)\}$ $D = \{-5, -2, 1, 4, 7\}$, $R = \{-2, 0, 2\}$, Many-to-one correspondence.

Lesson 2.3.1: Representations of Relations $\lceil \text{Total points} = 15 \rceil$

A. 1. Relation = $\{(1,20)\checkmark,(2,40)\checkmark,(3,60)\checkmark,(4,80)\checkmark\}$

X	1	2	3	4 ✓
У	20	40	60	80 ✓

- B. For each relation, determine the domain, range, and kind of pairing.
 - 1. $\{(0, 2), (1, 3), (2, 4), (3, 5), (4,6)\}$ $D = \{0, 1, 2, 3, 4\} \checkmark$, $R = \{2, 3, 4, 5, 6\} \checkmark$ One-to-one correspondence \checkmark
 - 2. $\{(0, 2), (0,4), (0, 6), (0, 8), (0, 10)\}$ $D = \{0\} \checkmark$, $R = \{2,4,6,8,10\} \checkmark$ One-to-many correspondence \checkmark
 - 3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)} $D = \{-5, -2, 1, 4, 7\} \checkmark, R = \{-2, 0, 2\} \checkmark$ Many-to-one correspondence \checkmark