Speaking Mathematically · Partner Check 1

A

Name: _____ Partner's name: _____ Date: _____

Directions: Work alone on your own problems. Partner B has different problems with the same answers. After each problem, compare answers; if they differ, find the mistake together.
Answer conventions: sets in roster form with elements in increasing order, ∅ for the empty set; truth columns as T/F strings in standard row order (TT, TF, FT, FF; with r: TTT, TTF, ..., FFF); fractions in lowest terms; ordered pairs as (x, y).

1

Domain D = {−3, −2, ..., 3}. Find the truth set of "2n + 1 > 4".

Answer: _____ Match? ☐ Yes ☐ No

2

A has 2 elements and B has 5 elements. How many ordered pairs are in A × B?

Answer: _____ Match? ☐ Yes ☐ No

3

How many elements are in {n ∈ ℤ | 4 ≤ n ≤ 8}?

Answer: _____ Match? ☐ Yes ☐ No

4

How many subsets does a set with 3 elements have (include ∅)?

Answer: _____ Match? ☐ Yes ☐ No

5

Solve (3x − 3, y + 2) = (9, 3). Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

6

A has 3 elements and B has 2 elements. How many ordered pairs are in A × B?

Answer: _____ Match? ☐ Yes ☐ No

Speaking Mathematically · Partner Check 1

B

Name: _____ Partner's name: _____ Date: _____

Directions: Work alone on your own problems. Partner A has different problems with the same answers. After each problem, compare answers; if they differ, find the mistake together.
Answer conventions: sets in roster form with elements in increasing order, ∅ for the empty set; truth columns as T/F strings in standard row order (TT, TF, FT, FF; with r: TTT, TTF, ..., FFF); fractions in lowest terms; ordered pairs as (x, y).

1

Domain D = {−3, −2, ..., 3}. Find the truth set of "n ≥ 2".

Answer: _____ Match? ☐ Yes ☐ No

2

A code is one letter from a set of 2 letters followed by one digit from a set of 5 digits. How many codes are possible?

Answer: _____ Match? ☐ Yes ☐ No

3

How many positive multiples of 3 are at most 15?

Answer: _____ Match? ☐ Yes ☐ No

4

How many bit strings of length 3 are there?

Answer: _____ Match? ☐ Yes ☐ No

5

Solve (x + y, x − y) = (5, 3). Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

6

A code is one letter from a set of 3 letters followed by one digit from a set of 2 digits. How many codes are possible?

Answer: _____ Match? ☐ Yes ☐ No

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A

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Answer conventions: sets in roster form with elements in increasing order, ∅ for the empty set; truth columns as T/F strings in standard row order (TT, TF, FT, FF; with r: TTT, TTF, ..., FFF); fractions in lowest terms; ordered pairs as (x, y).

1

A has 5 elements and B has 7 elements. How many ordered pairs are in A × B?

Answer: _____ Match? ☐ Yes ☐ No

2

Solve $(2x - 2, y + 2) = (8, 6)$. Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

3

A has 6 elements and B has 7 elements. How many ordered pairs are in A × B?

Answer: _____ Match? ☐ Yes ☐ No

4

How many subsets does a set with 3 elements have (include ∅)?

Answer: _____ Match? ☐ Yes ☐ No

5

Domain D = {−3, −2, ..., 3}. Find the truth set of "$n^2 - n = 0$".

Answer: _____ Match? ☐ Yes ☐ No

6

How many elements are in $\{n \in \mathbb{Z} \mid -2 \le n \le 7\}$?

Answer: _____ Match? ☐ Yes ☐ No

Speaking Mathematically · Partner Check 1

B

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Directions: Work alone on your own problems. Partner A has different problems with the same answers. After each problem, compare answers; if they differ, find the mistake together.
Answer conventions: sets in roster form with elements in increasing order, ∅ for the empty set; truth columns as T/F strings in standard row order (TT, TF, FT, FF; with r: TTT, TTF, ..., FFF); fractions in lowest terms; ordered pairs as (x, y).

1

A code is one letter from a set of 7 letters followed by one digit from a set of 5 digits. How many codes are possible?

Answer: _____ Match? ☐ Yes ☐ No

2

Solve (x + y, x − y) = (9, 1). Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

3

A code is one letter from a set of 7 letters followed by one digit from a set of 6 digits. How many codes are possible?

Answer: _____ Match? ☐ Yes ☐ No

4

How many bit strings of length 3 are there?

Answer: _____ Match? ☐ Yes ☐ No

5

Domain D = {−3, −2, ..., 3}. Find the truth set of "n(n − 1) = 0".

Answer: _____ Match? ☐ Yes ☐ No

6

How many positive multiples of 3 are at most 30?

Answer: _____ Match? ☐ Yes ☐ No

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A

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Answer conventions: sets in roster form with elements in increasing order, ∅ for the empty set; truth columns as T/F strings in standard row order (TT, TF, FT, FF; with r: TTT, TTF, ..., FFF); fractions in lowest terms; ordered pairs as (x, y).

1

Solve $(3x - 3, y + 2) = (3, 7)$. Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

2

Domain $D = \{-3, -2, ..., 3\}$. Find the truth set of "$n(n - 1) = 0$".

Answer: _____ Match? ☐ Yes ☐ No

3

A has 7 elements and B has 2 elements. How many ordered pairs are in $A \times B$?

Answer: _____ Match? ☐ Yes ☐ No

4

How many subsets does a set with 7 elements have (include ∅)?

Answer: _____ Match? ☐ Yes ☐ No

5

How many elements are in $\{n \in \mathbb{Z} \mid -2 \le n \le 5\}$?

Answer: _____ Match? ☐ Yes ☐ No

6

A has 7 elements and B has 5 elements. How many ordered pairs are in $A \times B$?

Answer: _____ Match? ☐ Yes ☐ No

Speaking Mathematically · Partner Check 1

B

Name: _____ Partner's name: _____ Date: _____

Directions: Work alone on your own problems. Partner A has different problems with the same answers. After each problem, compare answers; if they differ, find the mistake together.
Answer conventions: sets in roster form with elements in increasing order, ∅ for the empty set; truth columns as T/F strings in standard row order (TT, TF, FT, FF; with r: TTT, TTF, ..., FFF); fractions in lowest terms; ordered pairs as (x, y).

1

Solve (x + y, x − y) = (7, -3). Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

2

Domain D = {−3, −2, ..., 3}. Find the truth set of "$n^2 - n = 0$".

Answer: _____ Match? ☐ Yes ☐ No

3

A code is one letter from a set of 7 letters followed by one digit from a set of 2 digits. How many codes are possible?

Answer: _____ Match? ☐ Yes ☐ No

4

How many bit strings of length 7 are there?

Answer: _____ Match? ☐ Yes ☐ No

5

How many positive multiples of 3 are at most 24?

Answer: _____ Match? ☐ Yes ☐ No

6

A code is one letter from a set of 7 letters followed by one digit from a set of 5 digits. How many codes are possible?

Answer: _____ Match? ☐ Yes ☐ No