Speaking Mathematically · Partner Check 2

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

Solve $(3x - 3, y + 2) = (12, 8)$. Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

2

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

Answer: _____ Match? ☐ Yes ☐ No

3

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

Answer: _____ Match? ☐ Yes ☐ No

4

A has 2 elements and B has 5 elements. How many ordered pairs are in $A \times B$?

Answer: _____ Match? ☐ Yes ☐ No

5

How many subsets does a set with 2 elements have (include ∅)?

Answer: _____ Match? ☐ Yes ☐ No

6

How many elements are in $\{n \in \mathbb{Z} \mid -4 \le n \le 2\}$?

Answer: _____ Match? ☐ Yes ☐ No

Speaking Mathematically · Partner Check 2

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 $(x + y, x - y) = (11, -1)$. Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

2

How many bit strings of length 3 are there?

Answer: _____ Match? ☐ Yes ☐ No

3

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

Answer: _____ Match? ☐ Yes ☐ No

4

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

5

How many bit strings of length 2 are there?

Answer: _____ Match? ☐ Yes ☐ No

6

How many positive multiples of 3 are at most 21?

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

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

Answer: _____ Match? ☐ Yes ☐ No

2

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

Answer: _____ Match? ☐ Yes ☐ No

3

Solve (2x − 2, y + 2) = (4, 6). Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

4

How many elements are in {n ∈ ℤ | 0 ≤ n ≤ 2}?

Answer: _____ Match? ☐ Yes ☐ No

5

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

Answer: _____ Match? ☐ Yes ☐ No

6

How many subsets does a set with 4 elements have (include ∅)?

Answer: _____ Match? ☐ Yes ☐ No

Speaking Mathematically · Partner Check 2

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 > 3".

Answer: _____ Match? ☐ Yes ☐ No

2

How many bit strings of length 3 are there?

Answer: _____ Match? ☐ Yes ☐ No

3

Solve (x + y, x − y) = (7, -1). Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

4

How many positive multiples of 3 are at most 9?

Answer: _____ Match? ☐ Yes ☐ No

5

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

Answer: _____ Match? ☐ Yes ☐ No

6

How many bit strings of length 4 are there?

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

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

Answer: _____ Match? ☐ Yes ☐ No

2

A has 2 elements and B has 4 elements. How many ordered pairs are in A × B?

Answer: _____ Match? ☐ Yes ☐ No

3

How many elements are in {n ∈ ℤ | -3 ≤ n ≤ -1}?

Answer: _____ Match? ☐ Yes ☐ No

4

How many subsets does a set with 5 elements have (include ∅)?

Answer: _____ Match? ☐ Yes ☐ No

5

How many subsets does a set with 8 elements have (include ∅)?

Answer: _____ Match? ☐ Yes ☐ No

6

Solve (3x − 3, y + 2) = (0, 6). Give (x, y).

Answer: _____ Match? ☐ Yes ☐ No

Speaking Mathematically · Partner Check 2

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 4 digits. How many codes are possible?

Answer: _____ Match? ☐ Yes ☐ No

3

How many positive multiples of 3 are at most 9?

Answer: _____ Match? ☐ Yes ☐ No

4

How many bit strings of length 5 are there?

Answer: _____ Match? ☐ Yes ☐ No

5

How many bit strings of length 8 are there?

Answer: _____ Match? ☐ Yes ☐ No

6

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

Answer: _____ Match? ☐ Yes ☐ No