Reasoning and Problem Solving
Find Pairs of Values 1

Developing

1a. Felicity is incorrect as because both letters would represent 8, but each letter should represent a different number.

2a. a = 4; b = 3

3a. Richie is incorrect because 17 is not being divided, it is the answer.

Expected

4a. Elodie is incorrect because 7 ÷ 49 would give an answer less than 1. Her numbers would work if she swapped them around.

5a. a = 12; b = 4

6a. Josey is correct because to give an answer of 9, the number being divided must be a multiple of 9. Anything that can be divided by 9, can also be divided by 3. Example: 18 ÷ 9 = 2, 18 ÷ 3 = 6.

Greater Depth

7a. Polly is incorrect because 8 ÷ 28 would give an answer less than 1. Her numbers would work if she swapped them around.

8a. a = 84; b = 0.5

9a. Evan is incorrect because when two negative numbers are multiplied, the answer is positive. Example: -2 x -5 = 10.

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1b. Aaron is incorrect because 10 x 8 = 80. His values would word if the equation used addition.

2b. a = 5; b = 2

3b. Saima is correct because only even numbers give an answer of 2 when divided. Example: 16 ÷ 8 = 2.

Expected

4b. Daley is correct because 36 ÷ 6 = 6.

5b. a = 18; b = 3

6b. Russell is incorrect because division with two even numbers always produces an odd answer. Example: 10 ÷ 2 = 5.

Greater Depth

7b. Guy is correct because 21 ÷ 5 = 4.2

8b. a = 12; b = 0.75

9b. Kirsty is incorrect because dividing by an even number can still give a decimal answer. Example: 117 ÷ 6 = 19.5.

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