Find Pairs of Values 1

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1a. Felicity writes the following equation:

$$a + b = 16$$

For one of the possible pairs, she has written:

$$a = 8$$
 and $b = 8$

Is she correct? Explain your answer.

1b. Aaron writes the following equation:

$$a \times b = 18$$

For one of the possible pairs, he has written:

$$a = 10 \text{ and } b = 8$$

Is he correct? Explain your answer.



2a. What pair of values have been used in the following equations if the values are always the same?

$$a+b$$
 = 7

$$a \times b = 12$$

$$a-b$$
 = 1

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2b. What pair of values have been used in the following equations if the values are always the same?

$$a \times b$$
 = 10

$$a-b$$
 = 3

$$a+b$$
 = 7



3a. Richie is finding pairs of values for the equation below.

He savs

$$a \div b = 17$$

He says,



One value must be 1 because the answer is a prime number.

Is Richie correct? Explain why.



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3b. Saima is finding pairs of values for the equation below.

$$a \div b = 2$$

She says,



One of the values must be even as the answer is an even number.

Is Saima correct? Explain why.



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4a. Elodie writes the following equation:

$$a \div b = 7$$

For one of the possible pairs, she has written:

$$a = 7$$
 and $b = 49$

Is she correct? Explain your answer.

4b. Daley writes the following equation:

$$a \div b = 6$$

For one of the possible pairs, he has written:

$$a = 36$$
 and $b = 6$

Is he correct? Explain your answer.



5a. What pair of values have been used in the following equations if the values are always the same?

$$a+b$$
 = 16

$$a \times b = 48$$

$$a \div b = 3$$

$$a-b$$
 = 8

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5b. What pair of values have been used in the following equations if the values are always the same?

$$a+b$$
 = 21

$$a \times b = 54$$

$$a \div b = 6$$

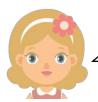
$$a-b$$
 = 15



6a. Josey is finding pairs of values for the equation below.

$$a \div b = 9$$

She says,



One value must be a multiple of 3 because 9 is a multiple of 3.

Is Josey correct? Explain why.



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6b. Russell is finding pairs of values for the equation below.

$$a \div b = 7$$

He says,



Both values can't be even because 7 is odd.

Is Russell correct? Explain why.



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7a. Polly writes the following equation:

$$a \div b = 3.5$$

For one of the possible pairs, she has written:

$$a = 8$$
 and $b = 28$

Is she correct? Explain your answer.

7b. Guy writes the following equation:

$$a \div b = 4.2$$

For one of the possible pairs, he has written:

$$a = 21$$
 and $b = 5$

Is he correct? Explain your answer.



8a. What pair of values have been used in the following equations if the values are always the same?

$$a+b$$
 = $\begin{bmatrix} 84.5 \end{bmatrix}$

$$a \times b = 42$$

$$a \div b = 168$$

$$a-b$$
 = 83.5

8b. What pair of values have been used in the following equations if the values are always the same?

$$a+b = 12\frac{3}{4}$$

$$a \times b = 9$$

$$a \div b$$
 = 16

$$a-b$$
 = $\left[11\frac{1}{4}\right]$



9a. Evan is finding pairs of values for the equation below.

$$a \times b = -60$$

He says,



Both values must be a negative number because the answer is a negative number.

Is Evan correct? Explain why.





9b. Kirsty is finding pairs of values for the equation below.

$$a \div b = 19.5$$

She says,



Value b must be an odd number because the answer is a decimal.

Is Kirsty correct? Explain why.

