Maths Mastery

Enumerate Possibilities of Combinations of Two Variables

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All the Values

1. In this equation, a and b are different whole numbers between 20 and 30. Write all the calculations that show all the possible values of a and b in the equation: a = 29, b = 22;

$$a - b = 7$$

 $a = 29, b = 22;$
 $a = 28, b = 21$

If you finish:

Check your answers with a partner.

Discuss with your partner why 'a' could not be 25.

Work with your partner to make some questions for other pairs.



b would have to be 18 which is less than 20



Possible Combinations

2. In each question, find all the possible combinations:

a. The total of 2 numbers is 17. The numbers are between 6 and 11.

7 + 10; 8 + 9

b. Two numbers added together make twenty-one. The numbers are eight or more.

8 + 13; 9 + 12; 10 + 11



If you finish: Share your answers with a partner.

Write some questions for your partner.

Hide Answers

Possible Combinations

3. In each question, find all the possible combinations:

c. The sum of two numbers is 35. Both numbers are less than twenty.

19 + 16; 18 + 17

d. The difference between two numbers is 9. The sum of the numbers is between 34 and 40.

24 - 15; 23 - 14; 22 - 13





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