

Enumerate Possibilities

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1a. True or false? Gizella has worked this out correctly.

$$a = 8$$

$$a + b = 17$$

$$c + b = 21$$

$$b = 9 \quad c = 12$$



VF

1b. True or false? Theo has worked this out correctly.

$$b = 9$$

$$b \times a = 18$$

$$c - b = 16$$

$$a = 2 \quad c = 7$$



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2a. Use the table to find all the possible combinations for these two variables.

$$a - b = 5$$

12	5	3	7
15	20	10	8



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2b. Use the table to find all the possible combinations for these two variables.

$$d + g = 18$$

10	1	12	6
17	8	14	4



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3a. List three possible values for a and b , where $c = 18$

$$2a + b = c$$



VF

3b. List three possible values for c and d , where $e = 12$.

$$c - 2d = e$$



VF

4a. Esther wants to buy some sweets. Some are 20p, some are 10p. She can spend 80p exactly. What combinations of sweets could she buy?



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4b. Hadi wants to buy some pencils. Some are 10p, some are 20p. He can spend £1 exactly. What combinations of pencils could he buy?



VF