

FRIDAY LEVEL 3 FLUENCY

For each question, find three possible values for a and b . Each value should only be a one-digit or two-digit whole number.

1. $12a + 2b = 48$

$12 \times \square + 2 \times \square = 48$

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2. $3a = 4b - 3$

$3 \times \square = 4 \times \square - 3$

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3. $10a = 7b$

$10 \times \square = 7 \times \square$

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- 2) a) In this equation, a and b are positive whole numbers. Find all the possible values of a and b , recording the pairs of numbers in a table.

$3a + 2b = 40$

a	b

- b) Explain any patterns you can see in the pairs of numbers you have found, and how you can use this to know all the possible pairs of numbers have been found.

9a. Which pair of values does not satisfy the equation?

$$2a \div b = 24 \frac{1}{4}$$

$a = 48.5$
 $b = 4$

$a = 64$
 $b = 6$

$a = 97$
 $b = 8$



VF

10a. Use the numbers in the table to find all the possible combinations for the two variables below.

$x - y = -5.5$

10	1	12	0.5
-4.5	6	6.5	4.5



VF

11a. Work out the values of v and y .

$x = 12.5$

$x + y = 28$

$v + y = 20.5$

$y = \square$ $v = \square$



VF

12a. List three possible values for a and b , where $c = 25$.

$3a + 2b = c$