

1

6a. Use the numbers in the table to find all the possible combinations for the two variables below.

$$x - y = 33$$

72	61	12	56
45	23	28	39

6b. Use the numbers in the table to find all the possible combinations for the two variables below.

$$j + k = 41$$

9	23	13	16
28	18	25	32

2

7a. Work out the values of b and c .

$$a = 12$$

$$a + b = 20$$

$$c + b = 35$$

$$b = \square \quad c = \square$$

7b. Work out the values of a and c .

$$b = 4$$

$$b \times a = 32$$

$$c - b = 23$$

$$a = \square \quad c = \square$$

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

$$x = 12.5$$

$$x + y = 28$$

$$v + y = 20.5$$

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

3

4a. Vivian is finding possible values for h and i .

$$5h + 3i = 50$$



If h equals 7,
 i must equal 15.

Is Vivian correct? Explain your answer.

4b. Ralph is finding possible values for x and y .

$$2x + 5y = 40$$



If x equals 15,
 y must equal 10.

Is Ralph correct? Explain your answer.

4

5a. If a is an odd number and b is 25, which of these could be true?

- A. $2a + 3b = 105$
- B. $a + a - 4b = 4$
- C. $4a \div 4b = 20$
- D. $3a + 3b = 96$

Convince me.

5b. If a is an even number and b is 4, which of these could be true?

- A. $5a + b = 15$
- B. $3a + 3b = 42$
- C. $2a + 5b = 36$
- D. $2a \times b = 48$

Convince me.

