Find Pairs of Values 2

1a. Gillian is finding possible values for x and y.

$$7x + 2y = 12.5$$

If x equals $\frac{1}{2}$, y must equal 5.5.

Is Gillian correct? Explain your answer.

1b. Faisan is finding possible values for a and b.

$$2a - 5b = -5$$

If a equals 2.5, b must equal 10.

Is Faisan correct? Explain your answer.

2a. If a is a negative number and b is 7, which of these could be true?

A. $a + b = 0$

B. $a + 3b = 16$

C. $a + 8b = 46$

D. $a + 2b - b = 3$

Convince me.

2b. If a is -5 and b is a decimal number, which of these could be true?

A. $a + b = -2.5$

B. $a + 3b = -3.5$

C. $a + 2b - b = 5.5$

D. $a - b = -9.5$

Convince me.

3a. CinePlaza sell 2 medium popcorn and 2 small popcorn for £17.50. What possible prices can you find for each popcorn?

$$2m + 2s = £17.50$$

m	s

3b. Warm Wear sell 5 mittens and 5 hats for £22.50. What possible prices can you find for each item?

$$5m + 5h = £22.50$$

m	h