Pairs of Unknowns

I can find pairs of numbers that solve an equation with two unknowns.

In each question, find all the possible pairs of numbers for a and b.

1. $a + b = 18$
   The value of $a > 9$ and the value of $b > 4$.

a =	10			
b =				

2. $a - b = 12$
   The value of $a > 20$ and the value of $b < 15$.

a =	21					
b =						

3. $ab = 48$
   The values of a and b are whole numbers.

a =	1									
b =										

4. $\frac{a}{b} = 5$
   The value of a is a whole number < 50.

a =	45								
b =									

5. $a + b = 37$
   The value of $a < 20$ and the value of $b < 24$.

a =	19					
b =						

Extra Challenge: Can you spot any patterns in the sequence of numbers that you found for the value of each unknown? Can you explain what you have found?

Pairs of Unknowns

I can find pairs of numbers that solve an equation with two unknowns.

In each question, find all the possible pairs of numbers for a and b.

1. $ab = 60$
   The values of a and b are whole numbers.

a =	1											
b =												

2. $\frac{a}{b} = 8$
   The value of a is a whole number < 80 but > 30.

a =	72					
b =						

3. $a - b = 116$
   The value of a is < 150 and the value of b is > 25.

a =	149							
b =								

4. $2a + b = 123$
   The value of a is a whole number > 10 and the value of b is > 90.

a =	11					
b =						

Extra Challenge: Can you spot any patterns in the sequence of numbers that you found for the value of each unknown? Can you explain what you have found?

Pairs of Unknowns

I can find pairs of numbers that solve an equation with two unknowns.

In each question, find all the possible pairs of numbers for a and b.

1. $3a - b = 20$
   The value of a is < 13 and the value of b is a positive whole number.

a =	12					
b =						

2. $a + 4b = 359$
   The value of a is > 240 and the value of b is > 25.

a =				
b =	26			

3. $a - 2b = 217$
   The value of a is < 332 and the value of b is > 50.

a =							
b =	51						

4. $3a + 2b = 151$
   The value of a is < 10 and the value of b is a whole number > 64.

a =				
b =				

Extra Challenge: Can you spot any patterns in the sequence of numbers that you found for the value of each unknown? Can you explain what you have found?

Pairs of Unknowns **Answers**

In each question, find all the possible pairs of numbers for a and b.

1. $a + b = 18$
   The value of $a > 9$ and the value of $b > 4$.

a =	10	11	12	13
b =	8	7	6	5

2. $a - b = 12$
   The value of $a > 20$ and the value of $b < 15$.

a =	21	22	23	24	25	26
b =	9	10	11	12	13	14

3. $ab = 48$
   The values of a and b are whole numbers.

a =	1	2	3	4	6	8	12	14	24	48
b =	48	24	14	12	8	6	4	3	2	1

4. $\frac{a}{b} = 5$
   The value of a is a whole number < 50.

a =	45	40	35	30	25	20	15	10	5
b =	9	8	7	6	5	4	3	2	1

5. $a + b = 37$
   The value of $a < 20$ and the value of $b < 24$.

a =	19	18	17	16	15	14
b =	18	19	20	21	22	23

Pairs of Unknowns **Answers**

In each question, find all the possible pairs of numbers for a and b.

1. $ab = 60$
   The values of a and b are whole numbers.

a =	1	2	3	4	5	6	10	12	15	20	30	60
b =	60	30	20	15	12	10	6	5	4	3	2	1

2. $\frac{a}{b} = 8$
   The value of a is a whole number < 80 but > 30.

a =	72	64	56	48	40	32
b =	9	8	7	6	5	4

3. $a - b = 116$
   The value of a is < 150 and the value of b is > 25.

a =	49	148	147	146	145	144	143	142
b =	33	32	31	30	29	28	27	26

4. $2a + b = 123$
   The value of a is a whole number > 10 and the value of b is > 90.

a =	11	12	13	14	15	16
b =	101	99	97	95	93	91

Pairs of Unknowns **Answers**

In each question, find all the possible pairs of numbers for a and b.

1. $3a - b = 20$
   The value of a is < 13 and the value of b is a positive whole number.

a =	12	11	10	9	8	7
b =	16	13	10	7	4	1

2. $a + 4b = 359$
   The value of a is > 240 and the value of b is > 25.

a =	255	251	247	243
b =	26	27	28	29

3. $a - 2b = 217$
   The value of a is < 332 and the value of b is > 50.

a =	319	321	323	325	327	329	331
b =	51	52	53	54	55	56	57

4. $3a + 2b = 151$
   The value of a is < 10 and the value of b is a whole number > 64.

a =	1	3	5	7
b =	74	71	68	65