Varied Fluency
Step 9: Find Pairs of Values 1

National Curriculum Objectives:

Mathematics Year 6: (6A4) Find pairs of numbers that satisfy an equation with two unknowns

Differentiation:

Developing Questions to support finding pairs of values using all 4 operations and whole numbers less than 20.
Expected Questions to support finding pairs of values using all 4 operations and whole numbers.
Greater Depth Questions to support finding pairs of values using all 4 operations and whole numbers, decimals, fractions and negative numbers.

More Year 6 Algebra resources.

Did you like this resource? Don't forget to review it on our website.

Find Pairs of Values 1

1a. Match the pairs of numbers to the equations.

12 ÷ 4	$a \div b = 3$
9 x 2	$c - d = 7$
19 – 12	$e \times f = 18$
15 ÷ 3	$j \div k = 5$

D VF

Find Pairs of Values 1

1b. Match the pairs of numbers to the equations.

18 – 11	$a + b = 18$
3 x 6	$c - d = 7$
7 + 13	$e \times f = 18$
16 + 2	$j + k = 20$

D VF

2a. Which set of values is the odd one out?

$$r \times s = 18$$

$r = 3$ $s = 6$	$r = 2$ $s = 8$	$r = 9$ $s = 2$

D VF

2b. Which set of values is the odd one out?

$$r \times s = 12$$

$r = 3$ $s = 6$	$r = 2$ $s = 6$	$r = 3$ $s = 4$

D VF

3a. Tick the options that satisfy the equation.

$$n - m = 13$$

A. $n = 19$ $m = 6$

B. $n = 20$ $m = 5$

C. $n = 17$ $m = 4$

D. $n = 16$ $m = 5$

D VF

3b. Tick the options that satisfy the equation.

$$n + m = 18$$

A. $n = 12$ $m = 6$

B. $n = 15$ $m = 3$

C. $n = 17$ $m = 2$

D. $n = 8$ $m = 11$

D VF

4a. Iqbal can only find 2 pairs of integer values for x and y. How many more are there?

$$x \times y = 10$$

D VF

4b. Simone can only find 3 pairs of integer values for x and y. How many more are there?

$$x + y = 7$$

D VF

Find Pairs of Values 1

5a. Match the pairs of numbers to the equations.

18 + 22	$a \times b = 40$
12 x 6	$c + d = 40$
51 + 21	$e \times f = 72$
5 x 8	$j + k = 72$

E VF

Find Pairs of Values 1

5b. Match the pairs of numbers to the equations.

71 – 47	$a \div b = 12$
72 ÷ 3	$c - d = 24$
97 – 85	$e \div f = 24$
96 ÷ 8	$j - k = 12$

E VF

6a. Which set of values is the odd one out?

$r \times s = 48$

$r = 4$ $s = 12$	$r = 6$ $s = 8$	$r = 7$ $s = 6$

E VF

6b. Which set of values is the odd one out?

$r \times s = 42$

$r = 7$ $s = 6$	$r = 3$ $s = 14$	$r = 13$ $s = 4$

E VF

7a. Tick the options that satisfy the equation.

$n + m = 54$

A. $n = 18$ $m = 36$

B. $n = 25$ $m = 31$

C. $n = 39$ $m = 15$

D. $n = 27$ $m = 29$

E VF

7b. Tick the options that satisfy the equation.

$n - m = 36$

A. $n = 66$ $m = 33$

B. $n = 36$ $m = 27$

C. $n = 81$ $m = 45$

D. $n = 50$ $m = 24$

E VF

8a. Sophie can only find 7 pairs of integer values for x and y. How many more are there?

$x + y = 11$

E VF

8b. Joseph can only find 3 pairs of integer values for x and y. How many more are there?

$x \times y = 18$

E VF

Find Pairs of Values 1

9a. Match the pairs of numbers to the equations.

-18 + 31	$a - b = 11.1$
23.2 – 12.1	$c + d = 13$
49 ÷ 7	$e \div f = 7$
31.4 – 12.5	$j - k = 18.9$

GD VF

Find Pairs of Values 1

9b. Match the pairs of numbers to the equations.

-47 – 13	$a \div b = 17$
12.5 x 5	$c - d = -60$
5.5 x 12	$e \times f = 62.5$
68 ÷ 4	$j \times k = 66$

GD VF

10a. Which set of values is the odd one out?

$$r + s = -15.6$$

$r = 29.4$ $s = -45$	$r = 3.7$ $s = -12.9$	$r = -3.1$ $s = -12.5$

GD VF

10b. Which set of values is the odd one out?

$$r - s = 13.7$$

$r = 5.8$ $s = -7.9$	$r = -2.2$ $s = -15.9$	$r = 4.3$ $s = -11.5$

GD VF

11a. Tick the options that satisfy the equation.

$$n \times m = 10$$

A. $n = 0.25$ $m = 40$

B. $n = 84$ $m = 73$

C. $n = \frac{3}{4}$ $m = 12$

D. $n = 2.5$ $m = 4$

GD VF

11b. Tick the options that satisfy the equation.

$$n + m = 40$$

A. $n = -32$ $m = 72$

B. $n = 12$ $m = 3$

C. $n = 27.5$ $m = 12.5$

D. $n = 48$ $m = 8$

GD VF

12a. Jameela can only find 8 pairs of integer values below 30 for x and y. How many more are there?

$$x \div y = 3$$

GD VF

12b. Kobi can only find 11 pairs of integer values below 20 for x and y. How many more are there?

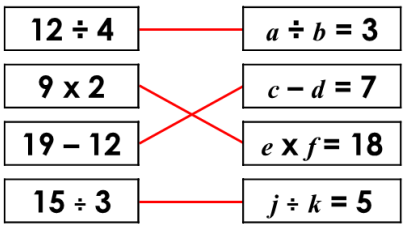
$$x - y = -2$$

GD VF

Varied Fluency
Find Pairs of Values 1

Developing

1a.



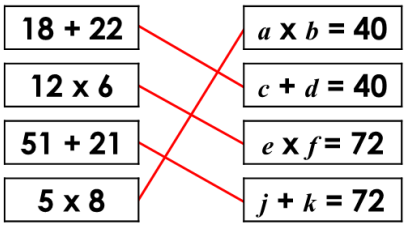
2a. $r = 2$, $s = 8$

3a. A and C

4a. 2 more

Expected

5a.



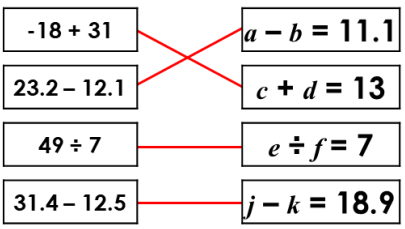
6a. $r = 7$, $s = 6$

7a. A and C

8a. 5 more

Greater Depth

9a.



10a. $r = 3.7$, $s = -12.9$

11a. A and D

12a. 8 more

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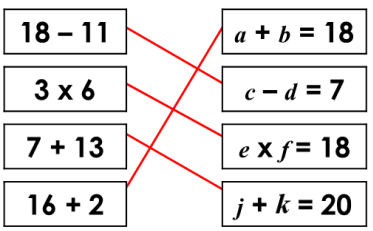
Find Pairs of Values 1

Developing

1a.



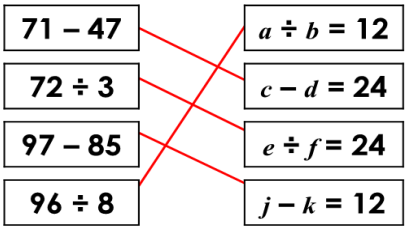
2a. $r = 3$, $s = 6$

3a. A and B

4a. 5 more

Expected

5a.



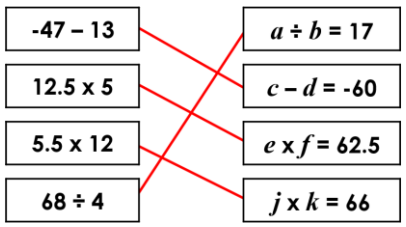
6a. $r = 13$, $s = 4$

7a. C

8a. 3 more

Greater Depth

9a.



10a. $r = 4.3$, $s = -11.5$

11a. A and C

12a. 7 more