

Name: _____

Equations with 2 Variables

Determine the value of the unknown variable in each equation.

1. $10 + a = b$

$a = 7, b = \underline{\hspace{2cm}}$

2. $g - 2 = h$

$g = 10, h = \underline{\hspace{2cm}}$

3. $12n = m$

$n = \underline{\hspace{2cm}}, m = 36$

4. $\frac{16}{v} = w$

$v = 2, w = \underline{\hspace{2cm}}$

5. $e + 9 = f$

$e = \underline{\hspace{2cm}}, f = 17$

6. $x + 14 = y$

x	4		9		
y		20		25	30

7. $5y = z$

y	2		6		12
z		20		45	

8. $a - 6 = b$

a	12	15		28	
b			18		50

9. $\frac{r}{2} = s$

r		4	8	14	
s	1				11

10. $\frac{50}{n} = m$

n	2		10	25	
m		10			1

11. $9 - x = y$

x	0	3	5		9
y				1	

ANSWER KEY

Equations with 2 Variables

Determine the value of the unknown variable in each equation.

1. $10 + a = b$

$a = 7, b = \underline{17}$

2. $g - 2 = h$

$g = 10, h = \underline{8}$

3. $12n = m$

$n = \underline{3}, m = 36$

4. $\frac{16}{v} = w$

$v = 2, w = \underline{8}$

5. $e + 9 = f$

$e = \underline{8}, f = 17$

6. $x + 14 = y$

x	4	6	9	11	16
y	18	20	23	25	30

7. $5y = z$

y	2	4	6	9	12
z	10	20	30	45	60

8. $a - 6 = b$

a	12	15	24	28	56
b	6	9	18	22	50

9. $\frac{r}{2} = s$

r	2	4	8	14	22
s	1	2	4	7	11

10. $\frac{50}{n} = m$

n	2	5	10	25	50
m	25	10	5	2	1

11. $9 - x = y$

x	0	3	5	8	9
y	9	6	4	1	0