

# Solving Equations Game

Earn points by solving the equations. Harder equations are worth more points.

Solve as many as you can in the time given.

## 1 Point Each

- a)  $x+5=11$
- b)  $q-5=2$
- c)  $5a=20$
- d)  $\frac{x}{3}=5$
- e)  $2p+1=9$
- f)  $5d-8=42$
- g)  $\frac{1}{2}p=4$
- h)  $\frac{16}{y}=2$

## 2 Points Each

- a)  $3z+1=7$
- b)  $8y-5=27$
- c)  $7b+4=25$
- d)  $5x=-10$
- e)  $4t=2$
- f)  $2y+7=17$
- g)  $2x=15$
- h)  $6a=6$
- i)  $32-2t=22$
- j)  $1+\frac{x}{6}=3$
- k)  $5y+6=21$
- l)  $\frac{t}{3}+15=21$
- m)  $\frac{1}{3}t=21$
- n)  $2=17-5n$

## 3 Points Each

- a)  $2(x+3)=12$
- b)  $3(e+2)=21$
- c)  $6(c-2)=24$
- d)  $8(q-3)=40$
- e)  $3(2w+1)=15$
- f)  $4(2q-1)=28$
- g)  $25=5(3y-10)$

## 4 Points Each

- a)  $3(p+2)=18$
- b)  $2(x-5)=7$
- c)  $2(6-d)=10$
- d)  $5=2(1+3t)$
- e)  $5q=12-q$
- f)  $3g-8=g$
- g)  $7k+3=3k+7$
- h)  $3x=20-x$
- i)  $2t=15-3t$

## 5 Points Each

- a)  $3+4t=12+t$
- b)  $3+5a=a+5$
- c)  $2b+7=11-3b$
- d)  $3y+1=9-y$
- e)  $12s=2s+5$
- f)  $x-3=\frac{1}{2}x+2$

## 6 Points Each

- a)  $3(2z-5)=z+15$
- b)  $m+2(m+1)=14$
- c)  $2(3-2x)=2(6-x)$
- d)  $2(y+4)+3(2y-5)=5$

- e)  $3(n+5)+n=23$
- f)  $\frac{3}{4}y=6$
- g)  $\frac{x}{3}=\frac{3}{2}$
- h)  $\frac{2d}{5}=-4$
- i)  $\frac{3t}{4}=\frac{1}{3}$
- j)  $\frac{5a}{6}=20$
- k)  $2(3h-4)=3(h+1)-5$
- l)  $5(x+2)+2(2x-1)=7(x-4)$
- m)  $3(x-4)=5(2x-3)-2(3x-5)$
- n)  $\frac{2}{3}x=4$
- o)  $\frac{2a+1}{2}=\frac{3}{5}$
- p)  $\frac{2(4x-3)}{5}=-6$
- q)  $\frac{h+1}{4}=3$
- r)  $\frac{7-d}{4}=\frac{5}{2}$
- s)  $\frac{2x-1}{3}=5$
- t)  $\frac{x+1}{2}+\frac{x-1}{3}=1$
- u)  $\frac{x+2}{3}-\frac{x+1}{4}=2$
- v)  $\frac{x}{2}-\frac{x}{3}=2$

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8  $\frac{16}{y}=2$

## 2 Points Each

2  $3z+1=7$

4  $8y-5=27$

3  $7b+4=25$

-2  $5x=-10$

0.5  $4t=2$

5  $2y+7=17$

7.5  $2x=15$

1  $6a=6$

5  $32-2t=22$

12  $1+\frac{x}{6}=3$

3  $5y+6=21$

18  $\frac{t}{3}+15=21$

7  $\frac{1}{3}t=21$

3  $2=17-5n$

## 3 Points Each

3  $2(x+3)=12$

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4  $3(p+2)=18$

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0.5  $5=2(1+3t)$

2  $5q=12-q$

4  $3g-8=g$

1  $7k+3=3k+7$

5  $3x=20-x$

3  $2t=15-3t$

## 5 Points Each

3  $3+4t=12+t$

0.5  $3+5a=a+5$

0.8  $2b+7=11-3b$

2  $3y+1=9-y$

0.5  $12s=2s+5$

10  $x-3=\frac{1}{2}x+2$

## 6 Points Each

6  $3(2z-5)=z+15$

4  $m+2(m+1)=14$

-3  $2(3-2x)=2(6-x)$

1.5  $2(y+4)+3(2y-5)=5$

2  $3(n+5)+n=23$

8  $\frac{3}{4}y=6$

4.5  $\frac{x}{3}=\frac{3}{2}$

-10  $\frac{2d}{5}=-4$

4/9  $\frac{3t}{4}=\frac{1}{3}$

24  $\frac{5a}{6}=20$

2  $2(3h-4)=3(h+1)-5$

-18  $5(x+2)+2(2x-1)=7(x-4)$

-7  $3(x-4)=5(2x-3)-2(3x-5)$

6  $\frac{2}{3}x=4$

0.1  $\frac{2a+1}{2}=\frac{3}{5}$

-3  $\frac{2(4x-3)}{5}=-6$

11  $\frac{h+1}{4}=3$

-3  $\frac{7-d}{4}=\frac{5}{2}$

8  $\frac{2x-1}{3}=5$

1  $\frac{x+1}{2}+\frac{x-1}{3}=1$

19  $\frac{x+2}{3}-\frac{x+1}{4}=2$

12  $\frac{x}{2}-\frac{x}{3}=2$

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## 1 Point Each

- a) 6
- b) 7
- c) 4
- d) 15
- e) 4
- f) 10
- g) 8
- h) 8

## 2 Points Each

- a) 2
- b) 4
- c) 3
- d) -2
- e)  $\frac{1}{2}$
- f) 5
- g) 7.5
- h) 6
- i) 5
- j) 12
- k) 3
- l) 18
- m) 7
- n) 3

## 3 Points Each

- a) 3
- b) 5
- c) 6
- d) 8
- e) 2
- f) 4
- g) 5

## 4 Points Each

- a) 4
- b) 8.5
- c) 1
- d)  $\frac{1}{2}$
- e) 2
- f) 4
- g) 1
- h) 5
- i) 3

## 5 Points Each

- a) 3
- b)  $\frac{1}{2}$
- c)  $\frac{4}{5}$
- d) 2
- e)  $\frac{1}{2}$
- f) 10

**6 Points Each**

- a) 6
- b) 4
- c) -3
- d) 1.5
- e) 2
- f) 8
- g) 4.5
- h) -10

- i)  $\frac{4}{9}$
- j) 24
- k) 2
- l) -18
- m) -7
- n) 6
- o) 0.1

- p) -3
- q) 11
- r) -3
- s) 8
- t) 1
- u) 19
- v) 12