

$3x - 3 - 2x = 4$	$4 + 2x = 12$	$1/5 x + 4 = 24$	$2(x + 4) = 14$
Combine like terms $3x - 2x - 3 = 4$ $x - 3 = 4$	Subtract 4 from both sides $2x + 4 = 12$ $\quad \quad \underline{-4 = -4}$ $2x = 8$	Subtract 4 from both sides $1/5 x + 4 = 24$ $\quad \quad \underline{-4 \quad -4}$ $1/5x = 20$	Use the distributive property $2(x + 4) = 14$ $2x + 8 = 14$
Add 3 to both sides $x - 3 = 4$ $\quad \quad \underline{+3 \quad +3}$	Divide both sides by 2 $\frac{2x}{2} = \frac{8}{2}$	Multiply both sides by 5 $1/5 x = 20$ $5 * 1/5x = 20 * 5$	Subtract 8 from both sides $2x + 8 = 14$ $\quad \quad \underline{-8 = -8}$ $2x = 6$
$x = 7$	$x = 4$	$x = 100$	Multiply both sides by $1/2$ $1/2 * 2x = 6 * 1/2$ $x = 3$
check: $x - 3 = 4$ $(7) - 3 = 4$ $4 = 4$	check: $2x + 4 = 12$ $2(4) + 4 = 12$ $12 = 12$	check: $1/5(100) + 4 = 24$ $20 + 4 = 24$ $24 = 24$	check: $2(3 + 4) = 14$ $2(7) = 14$ $14 = 14$

Make your own sort!

$x + 2x - 8 = 10$	$7m + 7 = 28$	$\frac{1}{3}m + 4 = 8$	$2(x + 3) = 16$

Solve each in the box. The first one is done for you.

1. $x - 8 = 10$ $\underline{+ 8} = \underline{+ 8}$ $x = 18$	2. $7m + 7 = 28$	3. $\frac{1}{3} m + 4 = 8$	4. $2(x + 3) = 16$
5. $x - 8 = -10$	6. $7m + 7 = -28$	7. $\frac{1}{3} m + 4 = -8$	8. $2(x + 5) = -20$
9. $-2 + x = 8$	10. $8 = 2x - 2$	11. $8 = \frac{1}{4}x$	12. $15 = -3(x - 1)$
13. $x + 2x = 9$	14. $3x + 2x = 10$	15. $\frac{1}{2} x + \frac{1}{2} x = 5$	16. $5(x + 2) +$ $x = 10$

1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.