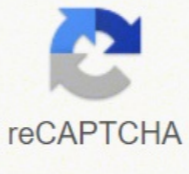




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Circle the numbers
Circle the possible values that satisfy each inequality.

$2x > 8$ 1 3 4 6	$x-3 < 9$ 16 5 18 10	$12 > x+6$ 2 3 6 5
$\frac{1}{2} > 9$ 2 20 6 8	$5x < 10$ 5 1 2 4	$x+5 > 9$ 2 1 7 9
$x+7 > 14$ 3 11 5 7	$\frac{1}{2} < 5$ 17 12 6 16	$16 > x+7$ 8 10 15 12
$5 > \frac{1}{2}$ 20 25 5 15	$6x < 18$ 5 4 3 2	$20 > 2x$ 13 10 9 8

L7 Solving Linear Equations (D)

Solve the equations and leave your answers as simplified fractions or as decimals.

- Section A**
- | | | |
|-------------------------------|------------------------------|---------------------------------|
| 1) $\frac{2x+5}{3} = 11$ | 5) $8x + \frac{1-4x}{8} = 7$ | 9) $2 + \frac{4x}{3} - 7 = 1$ |
| 2) $\frac{8-3x}{2} = 5$ | 6) $\frac{5}{x} = -6$ | 10) $4 - \frac{3x}{2} = 3x + 5$ |
| 3) $\frac{5-9x}{6} = -2$ | 7) $\frac{11}{4x} + 9 = 3$ | 11) $6 - \frac{2}{x} = 10$ |
| 4) $\frac{7x+6}{3} - 9 = -12$ | 8) $5 - \frac{3x}{4} = 8x$ | 12) $4 - \frac{2x}{9} + x = -1$ |

- Section B**
- | | |
|-------------------------|----------------------------------|
| 1) $4(2x-3) = 8(2x+5)$ | 7) $7(4-3x) = 2(8x-9) + 6$ |
| 2) $3(4x-5) = 5(2x-5)$ | 8) $-6(3-4x) + 2x = 8(x+11)$ |
| 3) $8(6x+2) = 5(x-2)$ | 9) $3(2x-6) = 3-4(3-x)$ |
| 4) $2(3x-4) = 7(11-2x)$ | 10) $9(2x-1) - 3x = 3(12+x)$ |
| 5) $7(5-x) = -4(x-11)$ | 11) $4x - (2x-8) = 5(1+2x)$ |
| 6) $-4(x-8) = -6(4+3x)$ | 12) $10 - 6(8x-2) = 9x - (3+4x)$ |

- Section C**
- | | |
|---|--|
| 1) $\frac{5x-2}{3} = \frac{4x+1}{2}$ | 8) $\frac{1}{2}(5x+7) = \frac{3}{4}(3x-1)$ |
| 2) $\frac{7x-8}{5} = \frac{2x+5}{4}$ | 9) $\frac{5}{3x+1} = 12$ |
| 3) $\frac{-8x-1}{2} = \frac{5-3x}{6}$ | 10) $\frac{x+2}{x+3} = 4$ |
| 4) $\frac{5(x+11)}{3} = \frac{3(1+x)}{2}$ | 11) $\frac{2x-9}{3x-2} = -3$ |
| 5) $\frac{3(2+5x)}{4} = \frac{2(6x-3)}{5}$ | 12) $\frac{2}{3x+10} = \frac{1}{x-1}$ |
| 6) $\frac{2(3x-5)}{3} = \frac{-4(x-2)}{7}$ | 13) $\frac{2}{7x+3} = \frac{9}{2x-5}$ |
| 7) $\frac{1}{2}(2x-6) = \frac{1}{4}(8-12x)$ | 14) $\frac{8}{6x+12} = -\frac{11}{7x-10}$ |

Distributive Property (A)

Use the distributive property to simplify each expression.

- | | |
|--------------|--------------|
| $2(4+9w)$ | $-8(6x+5)$ |
| $-4(-4d-5)$ | $-6(9p+3)$ |
| $2(3v-8)$ | $2(-5m)(-5)$ |
| $4(6z+4)$ | $-9(6-y)$ |
| $(5d+1)(-2)$ | $-4(9k+9)$ |
| $2(-5-7)$ | $(8b-2)(-3)$ |
| $-3(-8)$ | $-(-5-3a)$ |
| $-8(2+9w)$ | $-9(8-2b)$ |
| $(5f+8)$ | $(7x-8)(-1)$ |
| $(-6-4p)$ | $9(8+5)$ |

