

KEY

Mark /20 = %

Ma9: Math Solving Equations Test Review

Name: _____
Blk: _____

★ You must show your work for full marks.

ONE STEP

① $b + 3 = 12$
 $b = 9$ ✓

② $n - 6 = -9$
 $n = -3$ ✓

③ $33 = 9 - w$
 $27 = -w$
 $w = -27$ ✓

④ $x - 10 = -24$
 $w = -14$ ✓

TWO STEP

⑤ $4r + 7 = 19$
 $4r = 12$
 $r = 3$ ✓

⑥ $10x - 10 = -30$
 $10x = -20$
 $x = -2$ ✓

⑦ $2p - 9 = 15$
 $2p = 24$
 $p = 12$ ✓

⑧ $60 = 9x - 21$
 $81 = 9x$
 $9 = x$ ✓

⑨ $1.9 + n = 6.8$
 $n = 4.9$ ✓

⑩ $\frac{x}{2} - 1.6 = 4.4$
 $\frac{x}{2} = 6.0$
 $x = 12$ ✓

VARIABLES ON BOTH SIDES

⑪ $16 + 3x = 2x - 2$
 $16 + 1x = -2$
 $1x = -18$ ✓

⑫ $2x = -30 + 5x$
 $-3x = -30$
 $x = 10$ ✓

⑬ $2m + 3m = 8m - 3$
 $5m = 8m - 3$
 $-3m = -3$
 $m = +1$ ✓

⑭ $3(x+1) = 5x - 5$
 $3x + 3 = 5x - 5$
 $-2x + 3 = -5$
 $-2x = -8$
 $x = 4$ ✓

⑮ $2(3r - 4) = 4r + 10$
 $6r - 8 = 4r + 10$
 $2r - 8 = 10$
 $2r = 18$
 $r = 9$ ✓

⑯ $4(5p - 2) + 3p = 6p - 5$
 $20p - 8 + 3p = 6p - 5$
 $17p = +3$
 $-8 + 23p = 6p - 5$
 $-8 + 17p = -5$
 $17p = +3$
 $p = \frac{3}{17}$ ✓

ANY TYPE

⑰ $\frac{p}{3} = 81$
 $p = 243$ ✓

⑱ $6c = 2c + 16$
 $4c = 16$
 $c = 4$ ✓

⑲ $\frac{20}{y} = 4$
 $y = 5$ ✓

⑳ show a check for 3 of the review questions on the back of this sheet.