

HELPFUL EXAMPLE SOLVE 13 - 13 = 30 30 и и + 13 <u>H</u> 8  $\otimes$  $\odot$ + 13 - 13 🖽 30 и и - 0 = 43 ∠ u = 43 ∠ THE 30 IS HAPPY, BUT THE u AND THE 13 ARE NOT. IF WE MOVE THE u TO THE 30'S SIDE IT WILL NOT BE HAPPY ANYMORE, SO WE NEED TO MOVE THE 13. SEE, EVERYONE'S HAPPY NOW. I LIKE HAPPY! SOLVE EACH EQUATION.  $\frac{r}{2} = 12$ 2. 54 = t + 123. g - 10 = 31 = 24 t = 42q = 41 4 26 + d = 4317 v -18 13h = 395. 6. = 17 35 = 3 d v = h n - 31 = 48 8 90 = b o 10 9 = 6 7 X 48 79 b n 10. 28 = f + 1211. 46 + х = 94 12. 37 = w- 27 f = 16 = 48 = 64 х w 13 28 = 4h14.44 = 19+ 15 9h = 81k

25

k

ADDITIONAL HELP WITH EQUATIONS WHO SHOULD I MOVE? - PART 2

h = 7

ADDITIONAL HELP WITH EQUATIONS

PRACTICE B

ANSWERS - PAGE 4

= 9

h

ANSWERS - PAGE 3



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ADDITIONAL HELP WITH EQUATIONS ANSWERS - PAGE 5 PRACTICE C REMEMBER, YOU WANT TO MOVE THE NUMBER THAT IS NOT ATTACHED TO THE VARIABLE FIRST. PFULEXAMPLE WHAT WOULD YOU MOVE TO SOLVE THIS EQUATION? WOULD FIRST MOVE IT OVER TO THE 30. THEN I WOULD MOVE THE 4. ANSWER: FIRST I WOULD MOVE THE 6 THEN I WOULD MOVE THE 4 WHAT WOULD YOU MOVE TO SOLVE EACH EQUATION? 1. 9e - 3 = 24 2. 18 = 5d + 8 3.  $\frac{v}{6}$  - 2 = 2 

 FIRST I WOULD MOVE THE
 3
 FIRST I WOULD MOVE THE
 8
 FIRST I WOULD MOVE THE
 2

 THEN I WOULD MOVE THE
 9
 THEN I WOULD MOVE THE
 5
 THEN I WOULD MOVE THE
 6

4.  $13 = 3 + \frac{a}{2}$  5. 7d + 8 = 50 6. 6 + 3r = 12 $\begin{array}{c} \mbox{First i would move the } \underline{3} & \mbox{First i would move the } \underline{8} & \mbox{First i would move the } \underline{6} & \\ \mbox{Then i would move the } \underline{2} & \mbox{Then i would move the } \underline{7} & \mbox{Then i would move the } \underline{3} & \\ \end{array}$ WOUL Stippful EXAMPLE DESCRIBE HOW YOU WOULD CHANGE EACH EQUATION TO GET THE VARIABLE ALONE.  $2w + 8 = 14 \longrightarrow 2w + 8 = 14$ 88 8 THE 2, w, AND 8 ARE NOT HAPPY. THE 8 IS THE FARTHEST AWAY FROM THE w, SO I WOULD FIRST SUBTRACT BOTH SIDES BY 8. THEN I WOULD DIVIDE BOTH SIDES BY 2. ANSWER: FIRST I WOULD SUBTRACT BOTH SIDES BY 8. THEN I WOULD DIVIDE BOTH SIDES BY 2. 1.  $\frac{t}{4}$  - 6 = 14 2. 24 = 2x + 8FIRST I WOULD SUBTRACT BOTH SIDES BY 8. FIRST I WOULD ADD BOTH SIDES BY 6. THEN I WOULD DIVIDE BOTH SIDES BY 2. THEN I WOULD MULTIPLY BOTH SIDES BY 4. 3. 20 = 8f - 12 4.  $34 = 7 + \frac{k}{9}$ FIRST I WOULD ADD BOTH SIDES BY 12. FIRST I WOULD SUBTRACT BOTH SIDES BY 7. THEN I WOULD DIVIDE BOTH SIDES BY 8. THEN I WOULD MULTIPLY BOTH SIDES BY 9. ADDITIONAL HELP WITH EQUATIONS ANSWERS - PAGE 6 PRACTICE D  $\frac{d}{5}$  - 3 = 4 HELPFUL EXAMPLE SOLVE . STEP 1: DRAW WALL AND FACES. STEP 2: MOVE UNHAPPY NUMBER NOT ATTACHED TO VARIABLE. STEP 3: MOVE UNHAPPY NUMBER CLOSEST TO VARIABLE.  $\begin{array}{c} \hline \text{CLOSES}\\ \hline \text{OPPOSITE OF}\\ \hline \text{MINUS 3 IS PLUS 3}\\ \hline \end{tabular} \\ \hline \e$  $\frac{d}{5}$  - 3 = 4  $\overset{\otimes}{\otimes} \frac{d}{5} - 3 \overset{\otimes}{\bigoplus} 4$  $\begin{array}{c} \textcircled{(3)}{(3)} \\ (3) \\ \textcircled{(3)}{(3)} \\ (3) \\ (3$ 0 7 7 d = 35SOLVE EACH EQUATION. 1.  $\frac{z}{3}$  - 12 = 3 2. 6h - 4 = 2 3. 33 = 4c + 5 z = 45 h = 1 c = 7 4.  $17 = 13 + \frac{x}{4}$  5. 14 + 2m = 28 6.  $7 + \frac{y}{2} = 15$ *x* = 16 *m* = 7 y = 167. 20 = 8*f* - 12 8. 7 = 2 +  $\frac{n}{8}$  9. 59 = 15 + 4*u* f = 4*n* = 40 u = 11 10.  $3 = \frac{b}{6} - 5$  11.  $\frac{k}{10} + 1 = 11$  12. 7p + 11 = 46k = 100 p = 5

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b = 48