

ADDITIONAL HELP WITH EQUATIONS.

PRACTICE - A

EXAMPLE

WHAT WOULD YOU MOVE TO SOLVE THIS EQUATION?

$$94 = h + 30$$

SINCE THE h AND 30 ARE NOT HAPPY I NEED TO SEPERATE THEM. BUT I NEED TO KEEP THE 94 HAPPY TOO. WHICH MEANS, I WOULD MOVE THE 30 TO THE OTHER SIDE.

WHAT WOULD YOU MOVE TO SOLVE EACH EQUATION?

1. $x + 23 = 30$

2. $70 = t \times 5$

3. $17 = h + 10$

4. $40 = c - 16$

5. $x - 20 = 40$

6. $4c = 68$

7. $24 = e - 17$

8. $10 + y = 48$

9. $x + 15 = 66$

DESCRIBE HOW YOU WOULD CHANGE EACH EQUATION TO GET THE VARIABLE ALONE.

EXAMPLE

$$23 = e - 4$$

THE e AND 4 ARE NOT HAPPY, BUT I NEED TO KEEP THE 23 HAPPY TOO. I WOULD MOVE THE 4 BY ADDING BOTH SIDES BY 4

10. $5x = 40$

11. $20 = n/4$

12. $40 = h - 13$

13. $x - 6 = 17$

14. $48 + y = 33$

15. $22 = y/11$

PRACTICE - B

EXAMPLE

$$u - 13 = 30$$

$$+13 = +13$$

$$u - 0 = 43$$

$$u = 43$$

SOLVE EACH EQUATION.

1. $30 + d = 44$

2. $60 = x + 14$

3. $36 + x = 40$

4. $y/4 = 8$

5. $15 = v - 18$

6. $2h = 40$

7. $100 = x \times 5$

8. $30 = 5h$

9. $x - 30 = 40$

PRACTICE - C

EXAMPLE

$$30 = 4h - 6$$

THE 4, h AND 6 ARE NOT HAPPY. THE 6 IS THE FARTHEST AWAY FROM THE h, SO I WOULD FIRST MOVE IT OVER TO THE 30. THEN I WOULD MOVE THE 4.

FIRST I WOULD MOVE THE 6
THEN I WOULD MOVE THE 4

WHAT WOULD YOU MOVE TO SOLVE EACH EQUATION?

10. $5e - 2 = 30$

11. $8x + 10 = 40$

12. $2 + 3y = 15$

13. $x/5 - 3 = 3$

14. $20 = 4x = 5$

15. $2x + 15 = 18$

DESCRIBE HOW YOU WOULD CHANGE EACH EQUATION TO GET THE VARIABLE ALONE.

EXAMPLE

$$2w + 8 = 14$$

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.

FIRST I WOULD SUBTRACT BOTH SIDE BY 8
THEN I WOULD DIVIDE BOTH SIDES BY 2.

16. $x/2 - 4 = 16$

17. $30 = 5f - 10$

18. $24 = 2x + 4$

PRACTICE - D

EXAMPLE

$$d/5 - 3 = 4$$

$$+3 \quad = +3$$

$$d/5 - 0 = 7$$

$$d/5 = 7$$

$$\times 5 \quad = \times 5$$

$$1d = 35$$

$$d = 35$$

1. $x/2 - 12 = 2$

2. $15 + 5m = 30$

3. $x/5 - 2 = 7$

4. $30 = 2f - 16$

5. $k/5 + 1 = 16$

6. $20 = 2 + x/4$