DAY 1 - Solve ONE and TWO Step Equations

1. $12 = 3x$

$4 = x$

2. $x + 5 = 11$

$x = 6$

3. $y - 3 = -14$

$y = -11$

4. $\frac{x}{-11} = 3$

$x = -33$

5. $3 + x = -5$

$x = -8$

6. $21 = -3x$

$-7 = x$

7. $x - 4 = -5$

$x = -1$

8. $\frac{(x+2)}{6} = \frac{-3}{1}$

$x + 2 = -18$

$x = -20$

9. $16 = -4x$

$-4 = x$

10. $\frac{2r}{7} = -4$

$2r = -28$

$r = -14$

11. $\frac{(y-4)}{3} = \frac{7}{1}$

$y - 4 = 21$

$y = 25$

12. $9 = -\frac{3y}{11}$

$\frac{99}{-3} = \frac{-3y}{-3}$

$-33 = y$

13. $14 = -\frac{7k}{5}$

$70 = -7k$

$-10 = k$

14. $\frac{t}{12} - 1 = 1$

$\frac{t}{12} = \frac{2}{1}$

$t = 24$

15. $\frac{3x}{4} = 15$

$3x = 60$

$x = 20$

16. $\frac{4}{x} - 1 = -2$

$\frac{4}{x} = \frac{-1}{1}$

$4 = -1x$ $\therefore x = -4$

17. $5 - 2x = 17$

$-2x = 12$

$x = -6$

18. $-6 + \frac{3}{t} = -1$

$\frac{3}{t} = \frac{5}{1}$

$3 = 5t$

$0.6 = \frac{3}{5} = t$

19. $11 + 0.5x = 5$

$0.5x = -6$

$x = -12$

Check

LS	RS
$11 + 0.5x$	5
$11 + 0.5(-12)$	
$11 + -6$	
5	✓

20. $\frac{5r}{9} + 1 = 11$

$\frac{5r}{9} = \frac{10}{1}$

$5r = 90$

$r = 18$

Check

LS	RS
$\frac{5r}{9} + 1$	11
$\frac{5(18)}{9} + 1$	
$5(2) + 1$	
$10 + 1$	
11	✓

21. $16 = -32 + 4k$

$16 + 32 = 4k$

$48 = 4k$

$12 = k$

Check

LS	RS
16	$-32 + 4k$
	$-32 + 4(12)$
	$-32 + 48$
	16
	✓

Solve ONE step Word Problems

.2. Lisa is cooking muffins. The recipe calls for 7 cups of sugar. She has already put in 2 cups. How many more cups does she need to put in?

let x be more cups

$2 + x = 7$

$x = 5$

∴ she need 5 more

23. At a restaurant, Mike and his three friends decided to divide the bill evenly. If each person paid $13 then what was the total bill?

let x be total bill

$13(4) = x$

$52 = x$

∴ total was $52

24. How many packages of diapers can you buy with $40 if one package costs $8?

let x be # of packages

$40 = 8x$

$5 = x$

∴ can buy 5 packages

25. Last Friday Trevon had $29. Over the weekend he received some money for cleaning the attic. He now has $41. How much money did he receive?

let x be $ received

$29 + x = 41$

$x = 12$

∴ he received $12

6. Last week Julia ran 30 miles more than Pranav. Julia ran 47 miles. How many miles did Pranav run?

let x be miles ran by Pranav

$47 = x + 30$

$17 = x$

∴ she ran 17 miles

27. How many boxes of envelopes can you buy with $12 if one box costs $3?

let x be # of boxes

$12 = 3x$

$4 = x$

∴ you can by 4 boxes

28. Your mother gave you $13.32 with which to buy a present. This covered $\frac{3}{5}$ of the cost. How much did the present cost?

let x be present cost

$13.32 = \frac{3}{5}x$

$66.6 = 3x$

$22.2 = x$

∴ cost $22.20

29. A recipe for cookies calls for $3\frac{1}{4}$ cups of sugar. Amy has already put in $3\frac{1}{9}$ cups. How many more cups does she need to put in?

let x be more cups

$3\frac{1}{4} = x + 3\frac{1}{9}$

$3\frac{1}{4} - 3\frac{1}{9} = x$

$\frac{1 \cdot 9}{4 \cdot 9} - \frac{1 \cdot 4}{9 \cdot 4}$

$\frac{9-4}{36} = x$

0.14

∴ need $\frac{5}{36}$ cups

8 +4 +4 ∴

1.