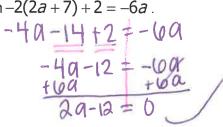
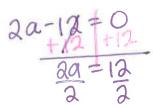
Solve the following equation -2(2a+7)+2=-6a.







2. The RHS Art Magnet was ordering art supplies that they would need this year in class. Each student ordered a 6 inch paint brushes that cost \$2.75 and a paint tray that cost \$1.50. If x represents the number of students in the art magnet, which equation can be used to find y, the total amount of money that the magnet spent on art supplies?

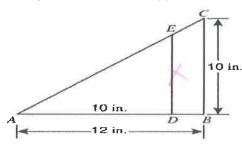
A. 
$$y = 2.75 + x + 1.50$$

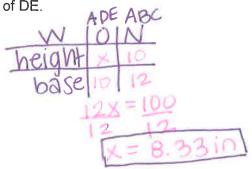
A. 
$$y = 2.75 + x + 1$$
.  
B.  $y = 4.25 + x$ 

C. 
$$y = x + 2.75$$
  
D.  $y = 4.25x$ 

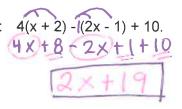
$$y = 2.76 \times +1.50 \times$$
  
 $y = 4.26 \times$ 

3. The triangles are similar. Approximate length of DE.



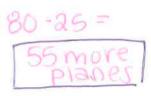


4. Write the following expression in simplest form: 4(x + 2) - (2x - 1) + 10.

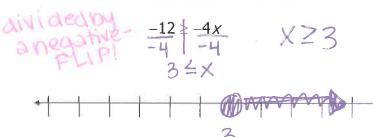


5. At DFW Airport, 8 planes land every 6 minutes. At Love Field airport 5 planes land every 12 minutes. How many more planes land in an hour at DFW airport than at Love Field airport?





6. Solve the following for x and graph the solution on the number line below.



7. Mrs. Himler solved the following equation using the steps shown below. What operation did she perform to get from Step 2 to Step 3?

Step	1		
Step	2		

$$2(x + 5) = x - 1$$

$$2x + 10 = x - 1$$

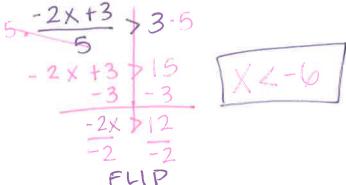
$$x + 10 = -1$$

$$x = -11$$

Subtracted x from both sides

8. Which situation best represents the expression 3x	+ 12?
The amount of money Alberto earns if he mows The total bill for 3 people to eat dinner if each m. Jose bought 3 shirts at x dollars each and a paid. The number of tickets purchased for \$12 each in the control of the	neal costs \$12. r of sunglasses for \$12.
9. Alexandria paid 9% tax on a new iPhone 5. She paid \$43.20 in taxes. What was the selling price of her new phone? †ax=pavt	Add all sides  10. The perimeter of a rectangle is 46 cm. The length is (3x+3) and the width is (x-4). Solve for x and find the length of each side.  3x+3  x-4  2(3x+3)+2(x-4)=46  Length: 21cm  width: 2cm
11. Which number line below matches the inequality	$\frac{-1 \le -3x + 2 \le 8?}{3 + \frac{-3x}{3} + \frac{-3}{3}}$ FLIP all signs
A. +   +   +   +   +   +   +   +   +   +	C. + + + + + + + + + + + + + + + + + + +
B. + + + + + + + + + + + + + + + + + + +	D. +
Name three solutions to the inequality in #11: (what numbers make the inequ	Jality TRUE?
12. Anna helps her grandmother at the Farmer's Mark In each crate of 20, there are usually 3 Granny Sm many Granny Smith apples did she sell? What per Smith?  ARTI  ART	

13. Solve the equation 
$$\frac{-2x+3}{5} > 3$$
 for x.



14. Write an equation to find the measure of two complementary angles when the measure of one angle is nine less than twice the other?



$$\frac{x}{3x} + \frac{2x-9}{90} = 90$$

sinbetween 903 180

15. If an obtuse angle is  $(4x - 10)^\circ$ , which of the following could be values of x?

B. 
$$x = 25$$

$$D'. x = 50$$

16. Solve the following for z: 2z - 3y + 10

$$\frac{13y}{2} = \frac{10 + 3y}{2}$$
 $\frac{2}{2} = \frac{10 + 3y}{2}$ 

17. Oscar buys a shirt for x dollars. The tax on the shirt is 8.25%. Which of the following expressions represents the price Oscar will pay when checking out?

C. x + 0.0825

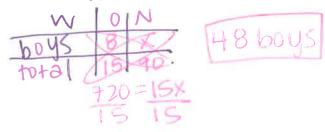
D. x + 8.25

price + tax 8.25% = .0825 18. Given the equation 5x - 4y = 10 what is the value of x when v = 2.

$$5x - 4(2) = 10$$
  
 $5x - 18 = 10$   
 $5x = 18$   
 $5x = 3$ . 6 or  $18/5$ 

19. The length of each leg of an isosceles triangle is 4 more than three times the length of the base. The perimeter of the triangle is 57 inches. Find the length of each side of the triangle.

20. The ratio of boys to girls in Mrs. Breckling's math class is 8:7. If Mrs. Breckling has a total of 90 students, predict how many students will be boys. PART TO WHOLE



21. In which step does a mistake first appear in simplifying the expression 0.5(-12c+6)-3(c+4)+10(c-5)?

Step 1: 
$$-6c+3-3(c+4)+10(c-5)$$

Step 2: 
$$-6c+3-3c-12+10(c-5)$$

Step 3: 
$$-6c+3-3c-12+10c-50$$

Step 4: 
$$7c - 41$$

combinino