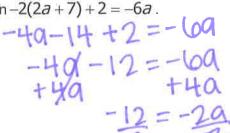
Solve the following equation -2(2a+7)+2=-6a.





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 represent 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? (2.75+1.50)X = 4

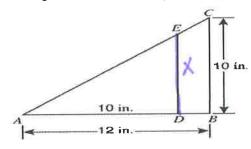
A.
$$y = 2.75 + x + 1.50$$

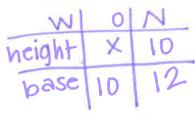
B. $y = 4.25 + x$

C.
$$y = x + 2.75$$

D. $y = 4.25x$

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



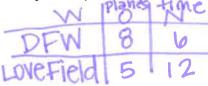


4. Choose the answer that represents the following expression in simplest form: 4(x + 2) - 3(2x - 1).

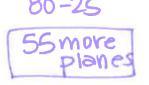
C.
$$-2x + 5$$

D. $10x + 5$
 $-2x + 11$

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?



DFW onehour: 8x10 = 80 LOVE onchour: 5x5=25



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

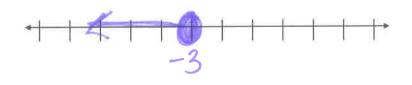
$$\frac{-12}{4} \ge \frac{4x}{4}$$

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?

_	12	≥ ′	X
1	4	4	4
	1		•
	2	フ	V

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

Step 2 $2x + 10 = x - 1$
Step 3 $x + 10 = -1$
Step 4 $x = -11$

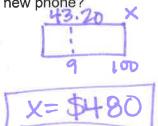


- 8. Which situation best represents the expression 3x + 12?
 - A. The amount of money Alberto earns if he mows 3 yards at \$12 each and weeds x flower beds.

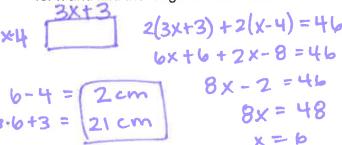
B. The total bill for 3 people to eat dinner if each meal costs \$12.

C. Jose bought 3 shirts at x dollars each and a pair of sunglasses for \$12.

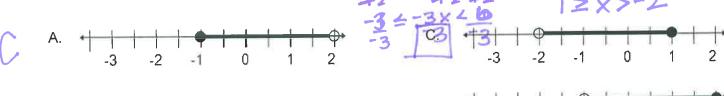
- D. The number of tickets purchased for \$12 each in the first 3 rows if they buy x number of seats.
- 9. Alexandria paid 9% tax on a new iPhone 5. She paid \$43.20 in taxes. What was the selling price of her new phone?



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.



11. Which number line below matches the inequality $-1 \le -3x + 2 < 8$?





12. Anna helps her grandmother at the Farmer's Market. A mixed variety of apples are sold in crates of 20. In each crate of 20, there are usually 3 Granny Smith apples. If Anna sells 15 crates of apples, how many Granny Smith apples did she sell? What percent of the total apples Anna sold were Granny Smith?

grannysmith
$$\frac{3}{3}$$
 $\frac{1}{20}$ $\frac{45}{300}$ $\frac{45}{300}$ $\frac{1}{300}$ $\frac{1}{300}$ $\frac{1}{300}$ $\frac{1}{300}$

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

14. Solve the equation
$$5x - 4y = 10$$
 for y.
$$-5x$$