

MONDAY HOMEWORK

1. Simplify: $-5(3x + 2y) - 3(x + 4y)$

2. Solve: $6x - 2x - 9 = 7$

3. Solve: $2w + 4(7 + 3w) = -14$

4. Write a multi-step equation for the word problem and solve.

Susan is collecting money from a calendar sale. She collected money from Jill for 12 calendars, money from Peter for 8 calendars and money from Zach for 14 calendars. Susan collected a total of \$170. How much did each calendar cost? Let c = the cost of each calendar.

5. You want to order tickets for a concert. The tickets cost \$19.95 each. There is a \$2.50 handling charge for each ticket. There is also a \$3.95 shipping fee for the entire order. If you order 15 tickets, how much will the bill come to?

TUESDAY HOMEWORK

1. A photograph is 12 in long by 20 in wide. It is reduced so that the width is 15 in. What is the new length? (Draw a picture)

2. A sandcastle casts an 18ft shadow at the same time a 5ft man casts a 20ft shadow. How tall is the sandcastle?

3. A pair of pants costs \$24.99 and is on sale for 25% off. The sales tax is 6%. What would the final cost of the two pairs of pants be if they were purchased?

4. $-45 = 5\left(\frac{2a}{5} + -3\right)$

5. $-8\left(\frac{a}{8} - 2\right) = 26$

WEDNESDAY HOMEWORK

1. Solve and graph on a number line: $\frac{x}{-4} - 5 > 3$

2. What is the interest on a \$43,800 loan at 4.8% for 2 years? How much does she owe for her loan?

3. **Write an inequality. Do not solve.**

Jess receives \$180 for each garage he paints over the summer. He wants to raise at least \$1620 for college. How many garages should Jess paint?

4. **Write an equation and solve:** Billy and Bobby are brothers. Bobby is 7 years older than Billy. The sum of their ages is 37. How old is Bobby?

5. **State whether the inequality is true or false for the given value. Show your work!**

$$6m + 3 < 8; m = 1$$

THURSDAY HOMEWORK

1. $-4 - 7(3p - 2) = -32$

2. **State whether each inequality is true or false for the given value. Show your work.**

$$K - 12 < 18; k = 31$$

3. **Graph the inequality on a number line:** $-x < 10$

4. **Write an equation and solve:** Carol is 56 inches tall. This is 20 inches less than two times Mindy's height. How tall is Mindy?

5. **Translate and solve the equation:**

The quotient of a number and four decreased by ten is two.