Homework

All of your work must be shown on separate looseleaf!

Monday 11/20: One-step multiplying and dividing equations

Solve the equation. Check your solution.

1. $16t = 60$

2. $1.5 = 3.3y$

3. $\dfrac{1}{8}d = -\dfrac{3}{5}$

4. $\dfrac{d}{1.2} = -3.3$

5. $18 = -\dfrac{6}{11}h$

6. $-7.24q = 17.014$

In Exercises 7 and 8, write an equation. Then solve.

7. If a project is handed in late, you receive $\dfrac{8}{9}$ of your earned points. You received 72 points on your late project. How many points did you lose?

8. There are 92 students in a room. They are separated into 18 groups. How many students are in each group? How many students are not in a group?

9. A bus token costs $1.75.

   a. You spend $15.75 on tokens. Write and solve an equation to find how many tokens you purchase.

   b. If you purchase 10 tokens, you get 2 free tokens. Write and solve an equation to find the approximate reduced price of each token.

   c. You also receive free tokens if you purchase 20 tokens. The reduced price for each token is $1.40. Write and solve an equation to find how many free tokens you receive.

10. Solve $\dfrac{1}{3}|z| = 2$.

Tuesday 11/21: Solving two-step equations

Solve the equation. Check your solution

1. $3k - 2 = 10$

2. $5p + 2 = -10$

3. $-4x + 3 = -11$

4. $12 = 2d + 3.2$

5. $-1 - 5h = 14$

6. $1.25r - 7 = 2.5$

7. $-4k + 3.6 = 7.8$

8. $\dfrac{5}{6} + 3j = -\dfrac{2}{3}$

9. $\dfrac{1}{2}b + \dfrac{9}{4} = \dfrac{7}{4}$

Wednesday 11/22: Solving two-step equations *[combining like terms or using the distributive property before solving]*

Solve the equation. Check your solution.

1) $-\dfrac{9}{10}p - 3 = \dfrac{3}{5}$

2) $5x - 7x = -22$

3) $-9 + 6c + 10 - 10c = -43$

4) $6(c + 5) = 25$

5) $3(k - 5) = -16$

6) $-2(m + 1) = 10 -$

Thursday 11/23: Solving two-step equations.

Solve the equation. Check your solution.

1. $5k - 8 = 7$

2. $6b + 9 = -15$

3. $-3.2w - 2 = -4.5$

4. $13 - 2n = 27$

5. $25 = 4.5z + 12$

6. $5.25s - 2.01 = -8.94$

7. $7c - 2c = 45$

8. $\dfrac{-2}{7}(5 - y) = \dfrac{-6}{7}$

9. $-2(1 + c) + 4c = -9$

Friday 11/24: Write and solve two-step equations

Solve the equation. Check your solution.

1. $\dfrac{1}{4}z - \dfrac{2}{7} = \dfrac{5}{7}$

2. $3 - \dfrac{r}{8} = -\dfrac{9}{2}$

3. $-\dfrac{1}{3} + 5e = -\dfrac{3}{4}$

4. $14d - 2d = -84$

5. $-5g - 13g = 54$

6. $-3(t - 8) = 32$

In Exercises 7 - 10, write an equation. Then solve.

7. Ethan planted a tree that is 37.5 inches tall. If the tree grows 3 inches each year, how long will it take for the tree to reach a height of 54 inches?

8. A music download service charges a flat fee each month and $0.99 per download. The total cost for downloading 27 songs this month is $42.72. How much is the flat fee?

9. Kayla's age is 3 less than twice her brother's age. Kayla is 13 years old. How old is her brother?

10. Mario spent $23.85 at the bookstore on one book and some magazines. The book cost $12.60 and the magazines cost $2.25 each. How many magazines did Mario buy?