

*Key*

# Daffy-nization Decoded



**Flu shot:**  $A = \frac{1}{10} \cdot \frac{1}{2} = \frac{1}{20}$   $J = \frac{1}{10} \cdot \frac{1}{4} = \frac{1}{40}$   $A = \frac{10}{11}$   $B = \frac{10}{11} \cdot \frac{1}{2} = \frac{5}{11}$   $\frac{2}{5} = \frac{10}{25}$   $\frac{3}{5} = \frac{9}{15}$   $W = \frac{2}{5} = \frac{6}{15}$   $E = \frac{3}{5} = \frac{9}{15}$   $L = \frac{5}{5} = \frac{15}{15}$   $D = -\frac{1}{2} \cdot \frac{1}{2} = -\frac{1}{4}$   $O = -\frac{1}{2} \cdot \frac{1}{7} = -\frac{1}{14}$   $N = -\frac{1}{2} \cdot \frac{1}{3} = -\frac{1}{6}$   $D = -\frac{1}{2} \cdot \frac{1}{2} = -\frac{1}{4}$   $O = -\frac{1}{2} \cdot \frac{1}{2} = -\frac{1}{4}$   $N = -\frac{1}{2} \cdot \frac{1}{2} = -\frac{1}{4}$   $E = -\frac{1}{2} \cdot \frac{1}{2} = -\frac{1}{4}$   $L = -\frac{1}{2} \cdot \frac{1}{2} = -\frac{1}{4}$   $D = -\frac{1}{2} \cdot \frac{1}{2} = -\frac{1}{4}$   $O = -\frac{1}{2} \cdot \frac{1}{2} = -\frac{1}{4}$   $N = -\frac{1}{2} \cdot \frac{1}{2} = -\frac{1}{4}$

**Fourth of July:**  $J = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $A = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $B = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $\frac{1}{2} = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $\frac{1}{5} = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $\frac{3}{5} = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $W = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $E = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $\frac{3}{4} = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $5 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $10 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $15 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $20 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $25 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $30 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $40 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $50 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $60 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $70 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $80 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $90 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $100 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $110 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $120 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $130 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $140 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $150 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $160 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $170 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $180 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $190 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $200 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $210 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $220 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $230 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $240 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $250 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $260 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $270 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $280 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $290 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $300 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $310 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $320 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $330 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $340 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $350 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $360 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $370 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $380 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $390 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $400 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $410 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $420 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $430 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $440 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $450 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $460 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $470 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $480 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $490 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$   $500 = \frac{1}{1350} \cdot \frac{1}{15} = \frac{1}{20250}$

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Solve each equation or problem and find your solution in the code.  
Each time the solution appears, write the exercise letter above it.

$$\begin{array}{l}
 \text{S} \quad 9a + \frac{2}{2} = -26 \quad | \quad \frac{2}{3}x - 4 = 10 \\
 q_a = -24 \quad | \quad \frac{2}{3}x = 14 \\
 \frac{q_a}{q} = -\frac{24}{2} \quad | \quad x = 21 \\
 \boxed{y = 25} \quad | \quad x = 21 \\
 \text{U} \quad 8 - \frac{4}{3}t = -12 - 8 \quad | \quad \frac{5}{8}q + 60 = 0 \\
 \frac{8}{3}m = 27 \quad | \quad \frac{5}{8}q = -60 \\
 (\frac{1}{3})\frac{8}{3}m = 27 \quad | \quad q = -96 \\
 (\frac{1}{3})\frac{8}{3}m = 27 \quad | \quad q = -96 \\
 \boxed{m = 6} \quad | \quad q = -96 \\
 \text{T} \quad \frac{1}{15} - \frac{1}{6}v = \frac{8}{15} \quad | \quad \frac{7}{8}P = -\frac{15}{4} \\
 \frac{1}{15}w + 7 = \frac{12}{5} \quad | \quad P = -\frac{15}{4} \\
 \frac{1}{2}w = 5 \quad | \quad \boxed{P = -\frac{15}{4}} \\
 (\frac{1}{2})\frac{1}{2}w = 5 \quad | \quad \boxed{P = -\frac{15}{4}} \\
 \boxed{w = 10} \quad | \quad \boxed{P = -\frac{15}{4}} \\
 \text{B} \quad \frac{11}{2}w + 7 = 12 \quad | \quad \text{D} \quad \frac{7}{8}P = -\frac{15}{4} \\
 \frac{1}{2}w = 5 \quad | \quad (\frac{9}{1})\frac{7}{8}P = -\frac{15}{4} \\
 (\frac{1}{2})\frac{1}{2}w = 5 \quad | \quad P = -\frac{15}{4} \\
 \boxed{w = 10} \quad | \quad \boxed{P = -\frac{15}{4}} \\
 \text{Y} \quad -1 + \frac{10}{3}h = -5 \quad | \quad \text{H} \quad h = \underline{\hspace{2cm}}
 \end{array}$$

- E** The Trek Club plans to hike 20 miles today. The hikers have covered 6 miles so far. If they travel at an average speed of  $2\frac{1}{2}$  mph, how many hours will it take to complete the hike?  
 $2\frac{1}{2}X + 6 = 20$   
 $\frac{5}{2}X = 14$   
 $(\frac{4}{5})\frac{5}{2}X = 14(\frac{4}{5})$   
 $X = 5\frac{3}{5}$  hours
- J** You are a salesperson for Worldwide Widgets. Each week you earn \$200 plus two ninths of your sales. What dollar amount of sales do you need this week to earn \$500?  $\underline{\hspace{2cm}}$
- K** You are a salesperson for Worldwide Widgets. Each week you earn \$200 plus two ninths of your sales. What dollar amount of sales do you need this week to earn \$500?  $\underline{\hspace{2cm}}$
- L** The Fourth of July sale at the Widget Emporium is on. Worldwide Widgets is having a 20% off sale. If you buy a \$300 item, how much will you save?  $\underline{\hspace{2cm}}$
- M** Worldwide Widgets is having a 20% off sale. If you buy a \$300 item, how much will you pay?  $\underline{\hspace{2cm}}$

Pre-Algebra

## 3.5 Solving Equations

Homework -

- Solving Equations with Fractions

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Hour: \_\_\_\_\_

Key

Solve the following equations. Be sure to show your work.

\*How are these problems different than the problems on the other side of this handout?

1.)  $\frac{x+3}{5} = 2$

2.)  $\frac{x-7}{3} = -4$

$(\frac{5}{1}) \frac{x+3}{5} = 2(5)$

$(\frac{3}{1}) \frac{x-7}{3} = -4(3)$

$x + 3 = 10$   
 $-3$

$x - 7 = -12$   
 $+7$

$x = 7$

$x = -5$

3.)  $\frac{2x+11}{-3} = 5$

4.)  $\frac{-5x-4}{2} = -7$

$(-\frac{3}{1}) \frac{2x+11}{-3} = 5(-3)$

$(\frac{2}{1}) \frac{-5x-4}{2} = -7(2)$

$2x + 11 = -15$   
 $-11$   
 $2x = -26$

$-5x - 4 = -14$   
 $+4$

$\frac{2x}{2} = \frac{-26}{2}$   
 $x = -13$

$-5x = -10$

$\frac{-5x}{-5} = \frac{-10}{-5}$

$x = 2$