

Overview of problems

🚩 🛛 Example Set: A

Solve the equations – show all work:

 1. x + 1 = 7 6. y - 12 = 4

 2. $z - \frac{1}{2} = 3$ 7. t + 15 = -15

 3. 9 + n = 0 8. 40 = x - (-8)

 4. g + 2 = -10 9. $12 + h = -\frac{1}{3}$

 5. x + 2.9 = 7.6 10. c - 1.3 = 12.5

Example Set: B

Solve the equations – show all work:

- 1. 2x = 14 5. -3x = 18

 2. -4y = -20 6. $-x = 3\frac{2}{3}$

 3. 6x = 30 7. -10z = -100
- 4. 8.1w = .02 8. -.002t = 1.039



Overview of problems

🚩 🛛 Example Set: C

Solve the equations – show all work:

- 1. $\frac{1}{3}x = 2$ 5. $\frac{2}{5}y = 3$
- 2. $\frac{9}{10}t = 1$ 6. $-\frac{7}{11}w = \frac{1}{2}$
- 4. $\frac{x}{4} = -5\frac{1}{2}$ 8. $\frac{m}{-4} = -\frac{3}{4}$

Example Set: D

 In physics the formula for force is F=ma. Where F (force) is measured in Newtons, m (mass) in kg and a (acceleration) in meters/second squared. How fast would a 500kg horse have to accelerate to create a force of 14000N?





Overview of problems

P

P

Example Set: A -ANSWER KEY

Solve the equations – show all work:

 1. x + 1 = 7 x = 6 6. y - 12 = 4 y = 16

 2. $z - \frac{1}{2} = 3$ $z = 3\frac{1}{2}$ 7. t + 15 = -15 t = -30

 3. 9 + n = 0 n = -9 8. 40 = x - (-8) x = 32

 4. g + 2 = -10 g = -12 9. $12 + h = -\frac{1}{3}$ $h = -12\frac{1}{3}$

 5. x + 2.9 = 7.6 x = 4.7 10. c - 1.3 = 12.5 c = 13.8

Example Set: B- ANSWER KEY

Solve the equations – show all work:

- 1. $2x = 14 \ x = 7$ 5. $-3x = 18 \ x = -6$ 2. $-4y = -20 \ y = 5$ 6. $-x = 3\frac{2}{3} \ x = -3\frac{2}{3}$
- 3. $6x = 30 \ x = 5$ 7. $-10z = -100 \ z = 10$
- 4. $8.1w = .02 \ w = .002469$ 8. $-.002t = 1.039 \ t = -519.5$



Overview of problems

F

Example Set: C-ANSWER KEY

Solve the equations – show all work:

1. $\frac{1}{3}x = 2$ x = 62. $\frac{9}{10}t = 1$ $t = \frac{10}{9}$ 3. $\frac{-6x}{7} = 36$ x = -424. $\frac{x}{4} = -5\frac{1}{2}$ x = -225. $\frac{2}{5}y = 3$ $y = \frac{15}{2}$ 6. $-\frac{7}{11}w = \frac{1}{2}$ $w = -\frac{11}{4}$ 7. $\frac{3t}{20} = -90$ t = -6008. $\frac{m}{-4} = -\frac{3}{4}$ m = 3

Example Set: D-ANSWER KEY

 In physics the formula for force is F=ma. Where F (force) is measured in Newtons, m (mass) in kg and a (acceleration) in meters/second squared. How fast would a 500kg horse have to accelerate to create a force of 14000N?

 $28 m/s^2$

