

Survival Guide

**SOLVE EQUATIONS**

1.  $-1 = t - 4$

2.  $-60 = 15x$

3.  $-16 = 1 + \frac{x}{3}$

4.  $\frac{9+m}{3} = 2$

5.  $x - 1 = 5x + 3x - 8$

To check:

6.  $5(2x - 3) = 5 - (x - 2)$

Unit 2 – Solve Equations

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

7.  $\frac{x+3}{3} - \frac{2-x}{7} = 1$

**REARRANGING FORMULAS**

8. Solve  $d = st$  for  $s$

9. Solve  $y = mx + b$  for  $x$ .

10. Solve for  $c$

$$m = \frac{E}{c^2}$$

11. Solve  $w = u + at^2$  for  $a$ .

## Survival Guide

### WORD PROBLEMS

#### 12. Taxes type

You bought a vacation package. The total cost included airport fee of \$100 and taxes of 13%.

- Assign variables and create an equation for this problem.
- Determine the original cost of the vacation without the airport fee or taxes if the total cost was \$1200.

#### 13. One rate type

A banquet hall has a flat fee of \$4000 for the event plus a charge per person attending. There were 250 people at the banquet.

- Assign variables and create an equation for this problem
- If the total cost was \$12 000, what was the charge per person?

## Unit 2 – Solve Equations

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

#### 14. Two rates type

A sightseeing train runs tours. An adult ticket is \$3 and a child's ticket is \$1.

- Assign variables and create an equation for this problem.
- If the total revenue was \$750 and 600 child tickets were sold, how many adults went on the tour?

#### REARRANGE LINEAR RELATION

15.  $-3x - 7y + 28 = 0$

