

Year 8 Mathematics Equations Practice Test 3

Name_

- 1. Solve 5a + 3 = 18
- 2. Solve 5(a + 11) = 35
- 3. Solve $\frac{b-7}{4} = 10$
- 4. Solve -2(a+5) 3 = 5
- 5. Solve $\frac{2m-3}{7} = 9$
- 6. Solve $\frac{x}{5} 3 = 2$
- 7. Solve 5k + 7 = k + 19
- 8. Solve 4a 8 = 2a 12
- 9. Solve 3k 117 = 5 t
- 10. Solve 5a + 2 = -2a + 16
- 11. Solve 5(2k+3) 7k = 21
- 12. Solve 3(m-4) + 2m = m + 8
- 13. Jack is 7 cm taller than Jill and the sum of their heights is 333 cm. How tall is Jack?
- 14. A rental store charges a flat fee of \$150 plus \$50 per day to rent truck.
 - a) If d is the number of days a truck is rented, write a formula to show the cost of renting a truck.
 - b) If a person is charged \$850 for renting a truck, for how many days did the person rent the truck?
- 15. The formula to convert degrees Frahrenheit (F) to degrees Celsius (C) is $C = \frac{5}{9}(F 32)$. Find the temperature in degrees Fahrenheit when it is 40° Celsius.
- 16. Solve and graph on the number line x + 8 > -5
- 17. Solve and graph on the number line $3x 7 \le 11$

18. Solve and graph on the number line 4 - 5x > 9

19. Solve and graph on the number line $\frac{3x+2}{4} > 5$

20. Solve and graph on the number line $\frac{8-2x}{3} \le -6$

21. Solve and graph on the number line $2 - \frac{4x}{7} > 10$