# Year 8 Mathematics <br> Equations Practice Test 3 

## Name

1. Solve $5 a+3=18$
2. Solve $5(a+11)=35$
3. Solve $\frac{b-7}{4}=10$
4. Solve $-2(a+5)-3=5$
5. Solve $\frac{2 m-3}{7}=9$
6. Solve $\frac{x}{5}-3=2$
7. Solve $5 \mathrm{k}+7=\mathrm{k}+19$
8. Solve $4 a-8=2 a-12$
9. Solve $3 \mathrm{k}-117=5-\mathrm{t}$
10. Solve $5 a+2=-2 a+16$
11. Solve $5(2 k+3)-7 k=21$
12. Solve $3(m-4)+2 m=m+8$
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 $\mathrm{C}=\frac{5}{9}(F-32)$. Find the temperature in degrees Fahrenheit when it is $40^{\circ}$ Celsius.
16. Solve and graph on the number line $x+8>-5$
17. Solve and graph on the number line $3 x-7 \leq 11$
18. Solve and graph on the number line $4-5 x>9$
19. Solve and graph on the number line $\frac{3 x+2}{4}>5$
20. Solve and graph on the number line $\frac{8-2 x}{3} \leq-6$
21. Solve and graph on the number line $2-\frac{4 x}{7}>10$
