

GRADE 7 Unit 6 Equations Sheet

- 1) Write an equation for each word problem below
 - a. A number increased by twelve is twenty
 - b. In total there of 20 stickers. Jims save 8 for himself and divide the rest up evenly with his 3 friends.
 - c. Twenty more than triple a number is 22
 - d. a number increased by 8 is 22

- 2) Solve the following using algebra (Show Work)
 - a. $a + 2 = 7$
 - b. $b + 6 = 11$
 - c. $10 = c + 5$
 - d. $15 = d + 10$

- 3) Solve for the missing variable using algebra (Show work)
 - a. $25 = a + 10$
 - b. $b + 6 = 24$
 - c. $30 = c + 20$
 - d. $2d + 6 = 18$

- 4) Model the balance and solve (Show Work)
 - a. $x + 7 = 12$
 - b. $n + 18 = 22$
 - c. $2m = 26$
 - d. $27 = 9 + 3k$

- 5) Write the equations and solve each (Show work)
 - a. 12 is two more than a number
 - b. 9 added to a number is 21
 - c. Four times a number is 24
 - d. Triple a number increased by four is 28

- 6) A rectangle with a base of 8 cm has a perimeter of 44 cm. (Show work)
 - a. Write an equation for perimeter.
 - b. Solve the above equation to determine the height of the rectangle.

- 7) The area of a rectangle is 120 cm^2 . Find the height of the rectangle if the base is 15 cm. (Show work)