

Unit 2: Word Problems Review

- Five times a number, increased by 7 is 27. What is the number? [4]
- The number of girls in the eco club is 3 less than double the number of boys. There are 30 students in the eco club. How many boys and how many girls are in the club? [11 boys and 19 girls]
- The length of a rectangle is 7 cm more than twice the width. The perimeter is 86 cm. Find the dimensions of the rectangle. [31 cm by 12 cm]
- Trisha has a bag with 32 dimes and nickels worth \$2.80. How many of each coin does she have? [24 dimes and 8 nickels]
- A large deluxe pizza costs \$4 more than a small deluxe pizza. If 5 small deluxe pizzas and one large deluxe pizza cost \$38.50, find the price of each size. [\$5.75 and \$9.75]
- The ages of Ella, Bella and Stella are consecutive integers. If the sum of their ages is 42, find each person's age. [13, 14 and 15]
- The sum of the angles in a triangle is 180° . Two of the angles are equal and the third angle is 46° . What is the size of the equal angles? [67°]
- Pasha has a box with 40 coins consisting of dimes, quarters and nickels that are worth \$5.25. There are 5 more nickels than quarters. How many of each coin does she have? [15 quarters, 5 dimes and 20 nickels]
- Campbell works for a cable company. He earns \$9.10 per hour, plus \$12.00 for each upgraded contract he sells. On March Break, Campbell is scheduled to work 40 h. He hopes to earn \$640. How many upgrades does he need to sell? [23]
- Twenty less than five times a number, divided by 2, is fifteen. [10]
- Three times the sum of four and a number is twice the number. [-12]
- A number divided by three is nine more than the number. [$\frac{-27}{2}$]
- In a triangle, one angle is 40° more than the smallest angle and the third angle is half the sum of the other two angles. Find the measure of each angle. [40° , 60° , 80°]
- Find two consecutive odd integers whose sum is 160. [79 and 81]
- A newspaper stand has 200 coins at the end of the day, all dimes and quarters. If the value of the coins is \$42.50, how many of each coin were in the stand? [150 quarters and 50 dimes]
- A bank teller had 125 bills in \$10 and \$20 bills to start the day. If the total in her register was \$1650, how many of each bill did the teller start off with? [85 \$10 bills and 40 \$20 bills]
- Gary has a box of coins that he uses when playing poker. The box currently contains 53 coins consisting of nickels, dimes and quarters. The number of quarters is equal to the number of nickels. The total value of the coins is \$6.80. How many of each type of coin does Greg have in the box? [15 nickels, 15 quarters and 23 dimes]