

## Two step equations : WORD PROBLEMS

- ✓ Brandon works at a bookstore where he gets paid \$12 per hour. On Tuesday after work, he spent \$15.40 on a book and he was left with \$80.60 from his paycheck for that day. Write and solve an equation to find  $x$ , the amount of time in hours, Brandon worked that day.

EQUATION : \_\_\_\_\_ Time in hours: \_\_\_\_\_ hrs

- ✓ Alda's school is 120 yards from her house. She walks at a constant speed of 150 yards per minute.

Write and solve an equation to find  $x$ , the amount of time in minutes, it will take her to be 450 yards away from school.

EQUATION : \_\_\_\_\_ Time in min: \_\_\_\_\_ min

- ✓ Beatrice took 20 liters of drinking water on a camping trip. Each day, she uses 2.5 liters. After some days, only 5 liters of water remained.

Write and solve an equation to find  $x$ , the amount of time in days, Beatrice has been camping.

EQUATION : \_\_\_\_\_ Time in days: \_\_\_\_\_ days

✓ Dwayne is taking a drawing class. He buys drawing pencils that cost 97 cents each and one sketchbook that costs \$5.95. Dwayne spent \$11.77 before tax. Write and solve an equation to find  $x$ , the number drawing pencils he bought.

EQUATION : \_\_\_\_\_ No. of pencils bought: \_\_\_\_\_

✓ Paul gave  $\frac{5}{7}$  of his pencils to his friends. Paul then found four pencils. He now has 12 pencils.

Write and solve an equation to find  $x$ , the number of pencils Paul had initially.

EQUATION : \_\_\_\_\_ No. of pencils bought: \_\_\_\_\_

✓ Brian is a window cleaner. He charges \$4 per window. The visiting charges for Brian is \$20. Write an equation for the following if Brian cleans ' $n$ ' number of windows.

EQUATION : \_\_\_\_\_

If a house has 7 windows how much will he charge.

\$ \_\_\_\_\_

✓ The Cooking Club made some pies to sell at a basketball game to raise money for the new math books. The cafeteria contributed four pies to the sale. Each pie was then cut into five pieces and sold. There were a total of 60 pieces to sell. How many pies did the club make?

EQUATION : \_\_\_\_\_ No. of pies made: \_\_\_\_\_

✓ On Tuesday Shanice bought five hats. On Wednesday half of all the hats that she had were destroyed. On Thursday there were only 17 left. How many did she have on Monday?

EQUATION : \_\_\_\_\_ Pies on Monday : \_\_\_\_\_

✓ Aliyah had some candy to give to her four children. She first took ten pieces for herself and then evenly divided the rest among her children. Each child received two pieces. With how many pieces did she start?

EQUATION : \_\_\_\_\_ No. of Pieces \_\_\_\_\_

✓ Patty is ordering vests for her scout troop to wear in the Veterans Day parade. She ordered 12 vests from the Festive Features clothing shop. Since this was a bulk order, Festive Features reduced the price of each vest by \$6. The total came to \$132. Write equation to find the amount festive features normally charges for a vest.

EQUATION : \_\_\_\_\_

How much does Festive features normally charge for a vest ?

\$ \_\_\_\_\_

✓ Ms. Chapman wants to take her scout troop to Neon Nights roller rink. The employee she spoke to ahead of time said the total cost for all 9 people in the group would be \$81. This includes an entrance ticket and a \$3 skate rental fee for each person.

Which equation can you use to find  $t$ , the cost of each entrance ticket?

EQUATION : \_\_\_\_\_

How much does the entrance ticket cost ? \$ \_\_\_\_\_

- ✓ Brittany brought her collection of Map Mosaics jigsaw puzzles to a secondhand store to sell. She was paid cash for all 8 puzzles in her collection. Before she left, Brittany used \$7.25 of her earnings to purchase a used board game. She had \$12.75 remaining.

Which equation can you use to find the amount of money,  $p$ , Brittany received for each puzzle in her collection?

EQUATION : \_\_\_\_\_

How much money did Brittany receive for each puzzle in her collection?

\$ \_\_\_\_\_

- ✓ Estelle is having her birthday party at Gold Frames Art Museum this year. A party package costs \$ 265 and covers the entrance fee for guests, a private party room, and an activity guide. Estelle upgraded her package to include a favor for each of her 8 guests, bringing the total to \$ 305

Write equation can you use to find  $f$ , the cost of each favor?

EQUATION : \_\_\_\_\_

How much did each favor cost?

\$ \_\_\_\_\_