

Name: \_\_\_\_\_

# Math is Gold

Date: \_\_\_\_\_

**Topic: Solve Equations (One variable)**

(id:sol\_eqn\_mult\_div\_A.1)

**Title: Translate each problem into an equation and then solve it. Use  $x$  as the unknown variable.**

<p>1) Joe spends <math>\frac{3}{5}</math> of his savings to buy a car. If the car costs \$15,000, what was Joe's savings before buying the car ?</p>	<p>2) The cost of a Math book is three times the cost of an English book. If the Math book costs \$120, what is the cost of an English book ?</p>
<p>3) Sara worked for 15 hours. If Sara worked three times as long as John did, how many hours did John work ?</p>	<p>4) Eight times a number is 256. What is the number ?</p>
<p>5) How many tickets must be sold at \$5 to make \$600 ?</p>	<p>6) John saves one-tenth of his monthly salary. If John saves \$1000 per month, what is his monthly salary ?</p>
<p>7) Two-thirds of a number is 60. What is the number ?</p>	<p>8) A car wash costs \$15. If the total car wash amount is \$300, how many cars are washed ?</p>
<p>9) A winter jacket costs twice as much as a sweat shirt. If the winter jacket costs \$100, how much is the sweat shirt ?</p>	<p>10) One-third of the committee voted for the bill. If 100 people voted for the bill, how many are there in the committee ?</p>

11) The product of 9 and a number is 729. What is the number ?

12) Negative seven times a number is -175. What is the number ?

13) 3.5 times a number is 280. What is the number ?

14) Two-fifths of a class are boys. If there are 20 boys in the class, how many students are there in the class ?

15) Kim has read  $\frac{2}{3}$  of the novels in the library. If Kim has read 50 novels in the library, how many novels are there in the library ?

16) Tom donates one-tenth of his income to charities in a year. If he has donated \$ 25,000 in a year, how much is Tom's annual income ?

17) Kim paid \$700 for a two-bed room in a hotel for 10 days. What is the daily rent for a two-bed room ?

18) Negative three-fifths of a number is -150. What is the number ?

19) Two-thirds of employees of a company are graduates. If there are 270 graduates, how many employees are there in the company ?

20) Negative one-third of a number is -250. What is the number ?