

Grade 6 - Solving One-Step Equations - Worksheet

Common Core 6.EE.B.5, 6.EE.B.6, 6.EE.B.7 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

These 20 problems practice solving one-step equations (Common Core 6.EE.B.5, 6.EE.B.6, and 6.EE.B.7). You will test solutions by substitution, solve with whole numbers, decimals, and fractions, and write and solve equations from real stories using tape diagrams and balances.

Grade 6 · Common Core State Standards: **6.EE.B.5**, **6.EE.B.6**, **6.EE.B.7**

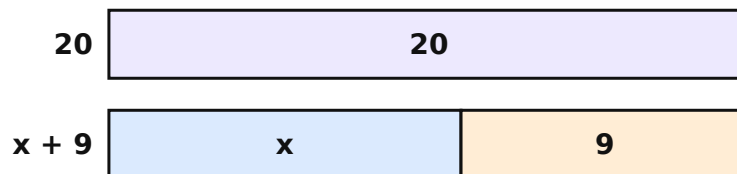
Exercise 1 - Is it a solution? (addition)

Is 5 a solution of $x+7=12$? Substitute to decide.

Exercise 2 - Is it a solution? (multiplication)

Is 4 a solution of $3x=15$? Substitute to decide.

Exercise 3 - Solve an addition equation



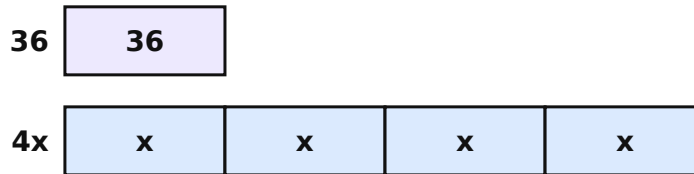
The whole is 20; the parts are x and 9.

Solve $x+9=20$.

Exercise 4 - Solve a subtraction equation

Solve $x-6=14$.

Exercise 5 - Solve a multiplication equation



Four equal parts make 36.

Solve $4x = 36$.

Exercise 6 - Solve a division equation

Solve $\frac{x}{5} = 7$.

Exercise 7 - Decimal addition

Solve $x + 3.5 = 8.2$.

Exercise 8 - Decimal multiplication

Solve $2.5x = 10$.

Exercise 9 - Fraction addition

Solve $x + \frac{1}{4} = \frac{3}{4}$.

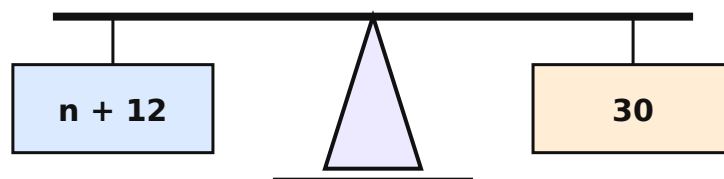
Exercise 10 - Fraction multiplication

Solve $\frac{2}{3}x = 8$.

Exercise 11 - Decimal subtraction

Solve $x - 2.75 = 5.25$.

Exercise 12 - Write and solve (sum)



The two sides are equal.

Write an equation for "a number n plus 12 is 30" and solve it.

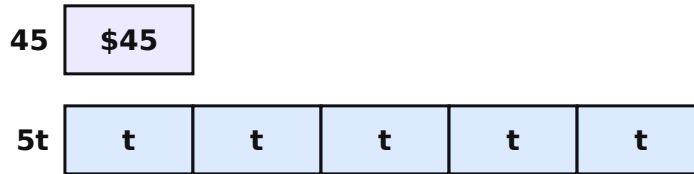
Exercise 13 - Write and solve (difference)

Write an equation for "6 less than a number n is 9" and solve it.

Exercise 14 - Money spent

Maya had x dollars. After she spent \$14 on lunch, she had \$23 left. Write an equation and find how much she had at first.

Exercise 15 - Tickets



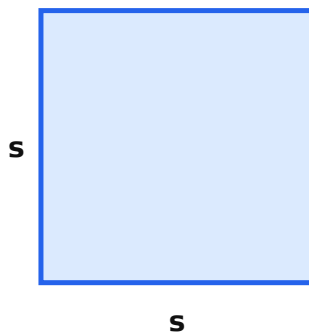
Five equal ticket prices make \$45.

Five tickets to the school play cost \$45 in all. Write an equation with t as the price of one ticket and solve it.

Exercise 16 - Height

Jamal's sister is 52 inches tall, which is 6 inches taller than Jamal. Write an equation for Jamal's height h and solve it.

Exercise 17 - Perimeter of a square



A square with perimeter 36 feet.

A square has a perimeter of 36 feet. Write an equation for the side length s and solve it.

Exercise 18 - Equal groups

A teacher has 24 students and puts them into groups of 4. Write an equation for the number of groups g and solve it.

Exercise 19 - Discount

A sweatshirt is on sale for \$27 after a discount of \$8. Write an equation for the original price p and solve it.

Exercise 20 - Saving plan

Noah had x dollars saved. His mom added \$15, and now he has \$62. Write and solve an equation for x . Then find how many weeks w it will take him to save \$54 more if he saves \$6 each week (write and solve $6w = 54$).