

Question ID 377a6aa4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 377a6aa4

If $3x - 8 = 7$, what is the value of $3x + 8$?

- A. -1
- B. 5
- C. 13
- D. 23

Question ID 4e00f906

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 4e00f906

What value of p satisfies the equation $5p + 180 = 250$?

- A. 14
- B. 65
- C. 86
- D. 250

Question ID 3cc991d1

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 3cc991d1

On the first day of a semester, a film club has **90** members. Each day after the first day of the semester, **10** new members join the film club. If no members leave the film club, how many total members will the film club have **4** days after the first day of the semester?

- A. **400**
- B. **130**
- C. **94**
- D. **90**

Question ID 4df85138

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 4df85138

$16x + 30 = 190$

Which equation has the same solution as the given equation?

- A. $16x = 30$
- B. $16x = 130$
- C. $16x = 160$
- D. $16x = 190$

Question ID 5b4e020d

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 5b4e020d

If $x = 40$, what is the value of $x + 6$?

- A. ~~34~~
- B. ~~40~~
- C. ~~46~~
- D. ~~64~~

Question ID 49729cb4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 49729cb4

If $3x - 27 = 24$, what is the value of $x - 9$?

- A. 1
- B. 8
- C. 24
- D. 35

Question ID 20c1b21d

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 20c1b21d

If $5x = 20$, what is the value of $15x$?

- A. 7
- B. 12
- C. 23
- D. 60

Question ID a23c1142

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: a23c1142

$8x = 88$

What value of x is the solution to the given equation?

- A. 11
- B. 80
- C. 96
- D. 704

Question ID 9fa4d469

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 9fa4d469

$4x + 5 = 165$

What is the solution to the given equation?

Question ID cf5d19dc

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: cf5d19dc

$$3x + 21 = 3x + k$$

In the given equation, k is a constant. The equation has infinitely many solutions. What is the value of k ?

Question ID 208e8feb

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 208e8feb

$w + 7 = 357$

What value of w is the solution to the given equation?

- A. 51
- B. 350
- C. 364
- D. 3,577

Question ID 551e171e

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 551e171e

$x + 40 = 95$

What value of x is the solution to the given equation?

Question ID 16915678

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 16915678

A gym charges its members a onetime **\$36** enrollment fee and a membership fee of **\$19** per month. If there are no charges other than the enrollment fee and the membership fee, after how many months will a member have been charged a total of **\$188** at the gym?

- A. **4**
- B. **5**
- C. **8**
- D. **10**

Question ID 65d4bce5

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 65d4bce5

3 more than 8 times a number x is equal to 83. Which equation represents this situation?

- A. $(3)(8)x = 83$
- B. $8x = 83 + 3$
- C. $3x + 8 = 83$
- D. $8x + 3 = 83$

Question ID 1cab63df

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 1cab63df

If $4x + 2 = 12$, what is the value of $16x + 8$?

- A. 40
- B. 48
- C. 56
- D. 60

Question ID c3f7afcd

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: c3f7afcd

If $2 + x = 60$, what is the value of $16 + 8x$?

Question ID b72da2e7

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: b72da2e7

Lorenzo purchased a box of cereal and some strawberries at the grocery store. Lorenzo paid **\$2** for the box of cereal and **\$1.90** per pound for the strawberries. If Lorenzo paid a total of **\$9.60** for the box of cereal and the strawberries, which of the following equations can be used to find ***p***, the number of pounds of strawberries Lorenzo purchased? (Assume there is no sales tax.)

- A. $1.90p + 2 = 9.60$
- B. $1.90p - 2 = 9.60$
- C. $1.90 + 2p = 9.60$
- D. $1.90 - 2p = 9.60$

Question ID 8aa9a086

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 8aa9a086

The perimeter of an isosceles triangle is **36** feet. Each of the two congruent sides of the triangle has a length of **10** feet. What is the length, in feet, of the third side?

- A. 10
- B. 12
- C. 16
- D. 18

Question ID 46eabc75

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 46eabc75

A manager is responsible for ordering supplies for a shaved ice shop. The shop's inventory starts with **4,500** paper cups, and the manager estimates that **70** of these paper cups are used each day. Based on this estimate, in how many days will the supply of paper cups reach **1,700**?

- A. **20**
- B. **40**
- C. **60**
- D. **80**

Question ID f0684572

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: f0684572

$k + 12 = 336$

What is the solution to the given equation?

- A. 28
- B. 324
- C. 348
- D. 4,032

Question ID 78cad658

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 78cad658

Nasir bought **9** storage bins that were each the same price. He used a coupon for **\$63** off the entire purchase. The cost for the entire purchase after using the coupon was **\$27**. What was the original price, in dollars, for **1** storage bin?

Question ID b9a1b79d

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: b9a1b79d

If $x = 7$, what is the value of $x + 20$?

- A. 13
- B. 20
- C. 27
- D. 34

Question ID d1bdce45

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: d1bdce45

$$3x + 5(x + 4) = 76$$

What value of x is the solution to the given equation?

- A. 7
- B. 8
- C. 56
- D. 72

Question ID f0e167d1

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: f0e167d1

If $\frac{x}{8} = 5$, what is the value of $\frac{8}{x}$?

Question ID c700f3b2

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: c700f3b2

The perimeter of an isosceles triangle is **83** inches. Each of the two congruent sides of the triangle has a length of **24** inches. What is the length, in inches, of the third side?

Question ID 5fcc71c6

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 5fcc71c6

If $3x = 30$, what is the value of $3x - 12$?

- A. -2
- B. 18
- C. 22
- D. 42

Question ID 0ed7f9ed

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 0ed7f9ed

If $4x = 3$, what is the value of $24x$?

- A. $\frac{9}{2}$
- B. 6
- C. 18
- D. 72

Question ID 4eb9696e

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 4eb9696e

If $2x + 3 = 9$, what is the value of $6x - 1$?

Question ID 9bad9c95

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 9bad9c95

A total of **165** people contributed to a charity event as either a donor or a volunteer. **130** people contributed as a donor. How many people contributed as a volunteer?

- A. **35**
- B. **130**
- C. **165**
- D. **330**

Question ID a8512111

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: a8512111

What value of p satisfies the equation $2p + 275 = 325$?

- A. 5
- B. 25
- C. 48
- D. 300

Question ID edd4942f

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: edd4942f

If $4x - 28 = -24$, what is the value of $x - 7$?

- A. -24
- B. -22
- C. -6
- D. -1

Question ID 675f2d28

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 675f2d28

$4x + 6 = 18$

Which equation has the same solution as the given equation?

- A. $4x = 108$
- B. $4x = 24$
- C. $4x = 12$
- D. $4x = 3$

Question ID a2a256c4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: a2a256c4

$2.6 + x = 2.8$

What value of x is the solution to the given equation?

Question ID 89a62ded

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 89a62ded

If $6 + x = 9$, what is the value of $18 + 3x$?

Question ID 95e7152d

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 95e7152d

If $2x = 12$, what is the value of $9x$?

Question ID a432107b

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: a432107b

Henry receives a **\$60.00** gift card to pay for movies online. He uses his gift card to buy **3** movies for **\$7.50** each. If he spends the rest of his gift card balance on renting movies for **\$1.50** each, how many movies can Henry rent?

- A. **10**
- B. **25**
- C. **35**
- D. **40**

Question ID 1083a0a9

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 1083a0a9

If $8x = 6$, what is the value of $72x$?

- A. 3
- B. 15
- C. 54
- D. 57

Question ID c066203a

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: c066203a

A principal used a total of **25** flags that were either blue or yellow for field day. The principal used **20** blue flags. How many yellow flags were used?

- A. **5**
- B. **20**
- C. **25**
- D. **30**

Question ID 5df78777

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 5df78777

A rocket contained **467,000** kilograms (kg) of propellant before launch. Exactly **21** seconds after launch, **362,105** kg of this propellant remained. On average, approximately how much propellant, in kg, did the rocket burn each second after launch?

- A. **4,995**
- B. **17,243**
- C. **39,481**
- D. **104,895**

Question ID b1491271

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: b1491271

$(p + 3) + 8 = 10$

What value of p is the solution to the given equation?

- A. -1
- B. 5
- C. 15
- D. 21

Question ID d53729e6

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: d53729e6

$8x - 7x + 130 = 260$

What value of x is the solution to the given equation?

Question ID 8725b868

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 8725b868

What value of x is the solution to the equation $16x + 24 = 24x$?

- A. -4
- B. $\frac{3}{10}$
- C. $\frac{1}{3}$
- D. 3

Question ID 5741413f

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 5741413f

If $7x = 28$, what is the value of $8x$?

- A. 21
- B. 32
- C. 168
- D. 224

Question ID 6374e7e7

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 6374e7e7

$7(2x - 3) = 63$

Which equation has the same solution as the given equation?

- A. $2x - 3 = 9$
- B. $2x - 3 = 56$
- C. $2x - 21 = 63$
- D. $2x - 21 = 70$

Question ID 2097069e

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: 2097069e

$13x = 112 - x$

What value of x is the solution to the given equation?

Question ID fdd71b2a

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: fdd71b2a

John paid a total of **\$165** for a microscope by making a down payment of **\$37** plus *p* monthly payments of **\$16** each. Which of the following equations represents this situation?

- A. $16p - 37 = 165$
- B. $37p - 16 = 165$
- C. $16p + 37 = 165$
- D. $37p + 16 = 165$

Question ID d9029f13

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	Easy

ID: d9029f13

If $6n = 12$, what is the value of $n + 4$?