



# Question ID 097e10f5

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 097e10f5

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

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

# Question ID 5c94e6fa

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 5c94e6fa

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

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

# Question ID 997bec28

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 997bec28

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 6ac23de7

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 6ac23de7

the fraction  $\frac{4x}{5}$ , equals

20

In the equation above, what is the value of  $x$  ?

- A. 25
- B. 24
- C. 16
- D. 15

# Question ID 7392dfc1

Assessment	Test	Domain	Skill	Difficulty
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ID: 7392dfc1

Which of the following is equivalent to  $4x + 6 = 12$ ?

- A. 2 x plus 4, equals 6
- B. x plus 3, equals 3
- C. 3 x plus 2, equals 4
- D. 2 x plus 3, equals 6

# Question ID 93954cfa

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 93954cfa

One pound of grapes costs \$2. At this rate, how many dollars will  $c$  pounds of grapes cost?

- A.  $2c$
- B. 2 plus  $c$
- C. the fraction 2 over  $c$
- D. the fraction  $c$  over 2

# Question ID 3d04de9c

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 3d04de9c

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 60f71697

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 60f71697

$8x = 88$

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

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

# Question ID 550b352c

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 550b352c

10 equals, 2 x plus 4

How many solutions exist to the equation shown above?

- A. None
- B. Exactly 1
- C. Exactly 3
- D. Infinitely many

# Question ID b4553284

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: b4553284

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

# Question ID ed18c4f7

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: ed18c4f7

Cathy has  $n$  CDs. Gerry has 3 more than twice the number of CDs that Cathy has. In terms of  $n$ , how many CDs does Gerry have?

- A.  $3n$  minus 2
- B.  $3n$  plus 2
- C.  $2n$  minus 3
- D.  $2n$  plus 3

# Question ID 12255364

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 12255364

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 d9d83c02

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: d9d83c02

For what value of  $w$  does

$w - 10 = 2(w + 5)$  ?

- A. 5
- B. 0
- C.  $-15$
- D.  $-20$

# Question ID 7a987ae4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 7a987ae4

If  $\frac{2n}{5} = 10$ , what is the value of  $2n - 1$ ?

- A. 24
- B. 49
- C. 50
- D. 99

# Question ID 9ff10b3b

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 9ff10b3b

If  $\frac{1}{2}x - \frac{1}{6}x = 1$ , what is

the value of  $x$  ?

- A. negative 4
- B. one third
- C. 3
- D. 6



# Question ID 4e77195b

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 4e77195b

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

# Question ID 4f7981a0

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 4f7981a0

If  $3x+2=8$ , what is the value of  $9x+6$  ?

# Question ID c3989ef8

Assessment	Test	Domain	Skill	Difficulty
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ID: c3989ef8

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 46f68129

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 46f68129

A librarian has 43 books to distribute to a group of children. If he gives each child 2 books, he will have 7 books left over. How many children are in the group?

- A. 15
- B. 18
- C. 25
- D. 29

# Question ID e53870b6

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: e53870b6

6 x plus k, equals, 6 x plus 5

In the given equation,  $k$  is a constant. If the equation has infinitely many solutions, what is the value of  $k$  ?

# Question ID 70774aa4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 70774aa4

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

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

# Question ID a9c04a21

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: a9c04a21

What is the solution to the equation  $2x + 3 = 7$ ?

- A. 1
- B. 1.5
- C. 2
- D. 4

# Question ID 6fa593f1

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: 6fa593f1

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

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