

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

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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?

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ID: 6ac23de7

$\frac{4x}{5} = 20$

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

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

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ID: 7392dfc1

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

- A.  $2x + 4 = 6$
- B.  $x + 3 = 3$
- C.  $3x + 2 = 4$
- D.  $2x + 3 = 6$

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ID: 93954cfa

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

A.  $2c$

B.  $2 + c$

C.  $\frac{2}{c}$

D.  $\frac{c}{2}$

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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**

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ID: 60f71697

$$8x = 88$$

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

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

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ID: 550b352c

$10 = 2x + 4$

How many solutions exist to the equation shown above?

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



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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.  $3n - 2$
- B.  $3n + 2$
- C.  $2n - 3$
- D.  $2n + 3$

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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**

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ID: d9d83c02

For what value of  $w$  does  $w - 10 = 2(w + 5)$  ?

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

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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

1.13

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ID: 9ff10b3b

If  $\frac{1}{2}x - \frac{1}{6}x = 1$ , what is the value of  $x$  ?

A.  $-4$

B.  $\frac{1}{3}$

C.  $3$

D.  $6$

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ID: 4e77195b

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

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ID: 4f7981a0

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

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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



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ID: e53870b6

$6x + k = 6x + 5$

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

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ID: 70774aa4

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

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

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ID: a9c04a21

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

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