

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

1.1

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

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

Question ID 997bec28

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ID: 997bec28

1.2

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

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ID: 6ac23de7

1.3

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

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

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

Question ID 7392dfc1

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ID: 7392dfc1

1.4

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

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

Question ID 93954cfa

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ID: 93954cfa

1.5

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. $\frac{c}{2}$

Question ID 3d04de9c

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ID: 3d04de9c

1.6

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
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ID: 60f71697

1.7

$8x = 88$

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

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

Question ID 550b352c

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ID: 550b352c

1.8

$10 = 2x + 4$

How many solutions exist to the equation shown above?

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

Question ID ed18c4f7

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ID: ed18c4f7

1.9

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. $2n + 3$

Question ID 12255364

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ID: 12255364

1.10

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

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ID: d9d83c02

1.11

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

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

Question ID 7a987ae4

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ID: 7a987ae4

1.12

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

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

Question ID 9ff10b3b

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ID: 9ff10b3b

1.13

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

Question ID 4e77195b

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ID: 4e77195b

1.14

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

Question ID 4f7981a0

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ID: 4f7981a0

1.15

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

Question ID 46f68129

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ID: 46f68129

1.16

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

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ID: e53870b6

1.17

$6x + k = 6x + 5$

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

Question ID 70774aa4

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ID: 70774aa4

1.18

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

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

Question ID a9c04a21

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ID: a9c04a21

1.19

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

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

Question ID 590f2187

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ID: 590f2187

1.20

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

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

Question ID 59afe8db

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ID: 59afe8db

1.21

$3x + 5(x + 4) = 76$ What value of x is the solution to the given equation?

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

Question ID c7d7980e

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ID: c7d7980e

1.22

$13x = 112 - x$ What value of x is the solution to the given equation?

Question ID 2e98b1df

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ID: 2e98b1df

1.23

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 40ba6288

Assessment	Test	Domain	Skill	Difficulty
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ID: 40ba6288

1.24

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

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