

Question ID d73f1c33

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Algebra	Linear equations in one variable	<div><div></div><div></div><div></div></div>

ID: d73f1c33

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

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

Question ID 710119ea

Assessment	Test	Domain	Skill	Difficulty
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ID: 710119ea

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 e7743fef

Assessment	Test	Domain	Skill	Difficulty
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ID: e7743fef

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

Question ID 5c60c35f

Assessment	Test	Domain	Skill	Difficulty
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ID: 5c60c35f

$4x + 5 = 165$

What is the solution to the given equation?

Question ID da7cded0

Assessment	Test	Domain	Skill	Difficulty
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ID: da7cded0

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 f193e75a

Assessment	Test	Domain	Skill	Difficulty
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ID: f193e75a

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

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

Question ID d737500a

Assessment	Test	Domain	Skill	Difficulty
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ID: d737500a

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

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

Question ID 740a23e7

Assessment	Test	Domain	Skill	Difficulty
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ID: 740a23e7

$k + 12 = 336$

What is the solution to the given equation?

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

Question ID 8229671d

Assessment	Test	Domain	Skill	Difficulty
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ID: 8229671d

$13x = 112 - x$

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

Question ID c4b690d2

Assessment	Test	Domain	Skill	Difficulty
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ID: c4b690d2

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

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

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

Question ID c98d15e1

Assessment	Test	Domain	Skill	Difficulty
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ID: c98d15e1

$x + 40 = 95$

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

Question ID dd42a36b

Assessment	Test	Domain	Skill	Difficulty
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ID: dd42a36b

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 db7305ee

Assessment	Test	Domain	Skill	Difficulty
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ID: db7305ee

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

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

Question ID 5f69b45d

Assessment	Test	Domain	Skill	Difficulty
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ID: 5f69b45d

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

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

Question ID 60f35c6d

Assessment	Test	Domain	Skill	Difficulty
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ID: 60f35c6d

$8x - 7x + 130 = 260$

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

Question ID 556e4caa

Assessment	Test	Domain	Skill	Difficulty
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ID: 556e4caa

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 7af4dc7f

Assessment	Test	Domain	Skill	Difficulty
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ID: 7af4dc7f

$(p + 3) + 8 = 10$

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

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

Question ID c7eb4ad9

Assessment	Test	Domain	Skill	Difficulty
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ID: c7eb4ad9

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

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

Question ID 3757bc97

Assessment	Test	Domain	Skill	Difficulty
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ID: 3757bc97

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 149c8821

Assessment	Test	Domain	Skill	Difficulty
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ID: 149c8821

$8x = 88$

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

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

Question ID 32112ba4

Assessment	Test	Domain	Skill	Difficulty
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ID: 32112ba4

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

Question ID 017427ff

Assessment	Test	Domain	Skill	Difficulty
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ID: 017427ff

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 b3ff677c

Assessment	Test	Domain	Skill	Difficulty
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ID: b3ff677c

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 259ab62a

Assessment	Test	Domain	Skill	Difficulty
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ID: 259ab62a

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

Question ID 9eaba458

Assessment	Test	Domain	Skill	Difficulty
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ID: 9eaba458

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

Question ID 5602cce0

Assessment	Test	Domain	Skill	Difficulty
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ID: 5602cce0

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

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

Question ID e4eb14ec

Assessment	Test	Domain	Skill	Difficulty
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ID: e4eb14ec

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

Question ID 5ed72ba4

Assessment	Test	Domain	Skill	Difficulty
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ID: 5ed72ba4

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

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

Question ID 28857637

Assessment	Test	Domain	Skill	Difficulty
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ID: 28857637

$4x + 6 = 18$

Which equation has the same solution as the given equation?

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