#1

ID: fa80893a

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

#2

ID: 0adbe034

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

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

#3

ID: baca4a4c

$$7(2x - 3) = 63$$

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

#4

ID: 097e10f5

What value of p satisfies the equation

$$5p + 180 = 250$$
?

- **A)** 14
- B) 65
- C) 86
- D) 250

#5

ID: 590f2187

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

- **A**) 1
- B) 8
- C) 24
- D) 35

#6

ID: f2b63f49

$$8x - 7x + 130 = 260$$

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

#**7** ID: 51aabd93

$$(p+3)+8=10$$

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

- **A)** -1
- B) 5
- C) 15
- D) 21

**#8** ID: 349a5bc1

$$4x + 5 = 165$$

What is the solution to the given equation?

**#9** ID: 6105234d

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

**#10** 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?

**#11** ID: 2f0a43b2

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

**#12** 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?

**#13** ID: 40ba6288

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

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

#14

ID: 6ac23de7

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

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

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

#15

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

#16

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)  $\frac{c}{2}$

#17

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

**#18** ID: 60f71697

8x = 88

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

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

**#20** ID: e7b6f0d1

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

**#19** ID: 4de87c9a

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

**#21** ID: 8339793c

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?

#22

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

**#23** ID: 87071893

x + 40 = 95

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

**#24** ID: b4553284

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

**#25** 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) 2*n* 3
- D) 2n + 3

**#26** ID: 0d685865

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

- **A)** 13
- B) 20
- C) 27
- D) 34

**#27** 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

Math   Algebra   Linear equations in one variable   Easy						
#28	ID: b82a943c	#30	ID: 2e98b1df			
	ID: eac739b2	members. Each da semester, 10 new no members leave	a semester, a film club has 90 ay after the first day of the members join the film club. If a the film club, how many total ilm club have 4 days after the nester?			
If $4x + 2 = 12$ , what is the value of $16x$ A) 40	+ 8?	#31	ID. 40402 c02			
B) 48		πΟΙ	ID: d9d83c02			
C) 56		For what value of $w$ does $w - 10 = 2(w + 5)$ ?				
D) 60		A) 5				
		B) 0				
		C) -15				
		D) -20				
		#32	ID: 3c4ce699			
		If $6 + x = 9$ , what is	s the value of $18 + 3x$ ?			

**#33** ID: 9fc31513

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

#**34** ID: c7d7980e

$$13x = 112 - x$$

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

#35 ID: 83fb222d

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

#**36** ID: 7a987ae4

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

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

#37 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

**#38** ID: 59afe8db

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

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

- **A)** 7
- B) 8
- C) 56
- D) 72

Math   Algebra   Linear equations in one variable   Easy						
#39	ID: 4e77195b	#	42	ID: fbb0ea7f		
If $2 + x = 60$ , what is the value of $16 + 8x$ ?		p a	A rocket contained 467,000 kilograms (kg) of propellant before launch. Exactly 21 seconds after launch, 362,105 kg of this propellant			
#40	ID: 4f7981a0	r	remained. On average, approximately how much propellant, in kg, did the rocket burn each			
If $3x + 2 = 8$ , what is the value of $9x$	+6?	second after launch?  A) 4,995  B) 17,243				
#41	ID: c841e8e8		C) 39,481 C) 104,895			
k + 12 = 336						
What is the solution to the given equation?		#	43	ID: c3989ef8		
A) 28 B) 324 C) 348 D) 4,032		r r h	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

Math I Algebra I Linear equations in one variable I Easy

**#44** 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

**#45** ID: 56e373b3

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

**#46** 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?

**#47** ID: 70774aa4

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

- **A)** 7
- B) 12
- C) 23
- D) 60

**#48** ID: a9c04a21

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

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

#49

ID: 6fa593f1

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

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