

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

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

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

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

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?

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

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

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

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

A.  $2x + 4 = 6$

B.  $x + 3 = 3$

C.  $3x + 2 = 4$

D.  $2x + 3 = 6$

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.  $\frac{c}{2}$

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**

$$8x = 88$$

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

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



$$10 = 2x + 4$$

How many solutions exist to the equation shown above?

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

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

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.  $2n + 3$

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**

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

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

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

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

For what value of  $w$  does

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

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

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

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



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.  $6$

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

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

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**

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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$$6x + k = 6x + 5$$

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

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

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

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

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



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

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