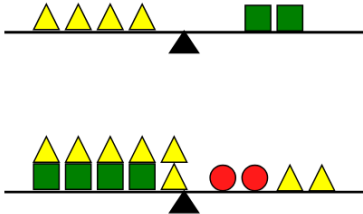


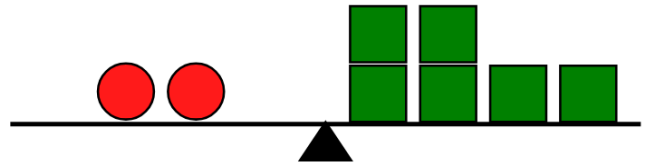


Equations and Inequalities

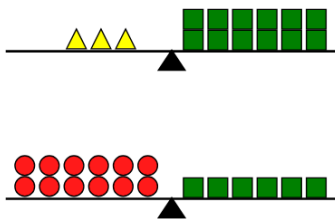
- 1 Which equations represent what these balance beams are showing



- 2 Which equations represent what these balance beams are showing



- 3 Which equations represent what these balance beams are showing



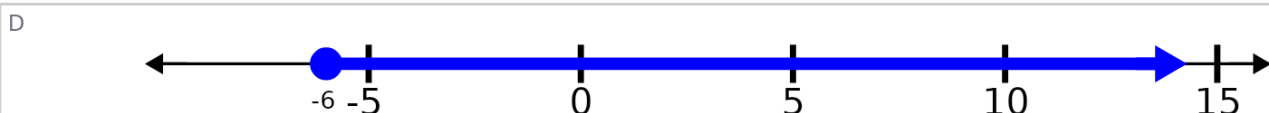
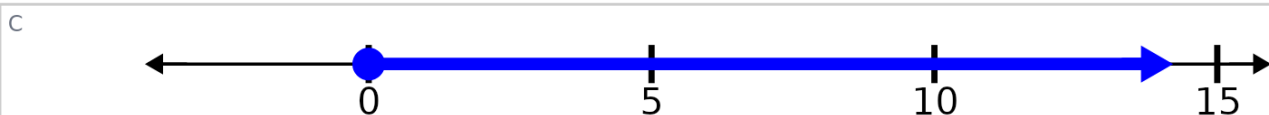
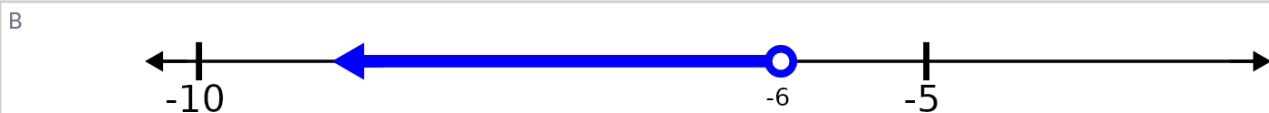
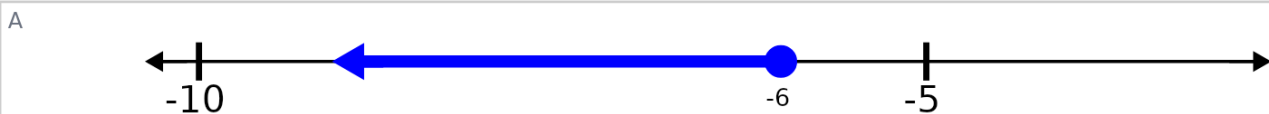
- 4 Solve for the variable in the equation

$$7n = 32 - 9n$$

A	$n = 1$	B	$n = 0$
C	$n = 4$	D	$n = 2$
E	$n = -1$	F	$n = 3$

- 5 Which number line shows this inequality?

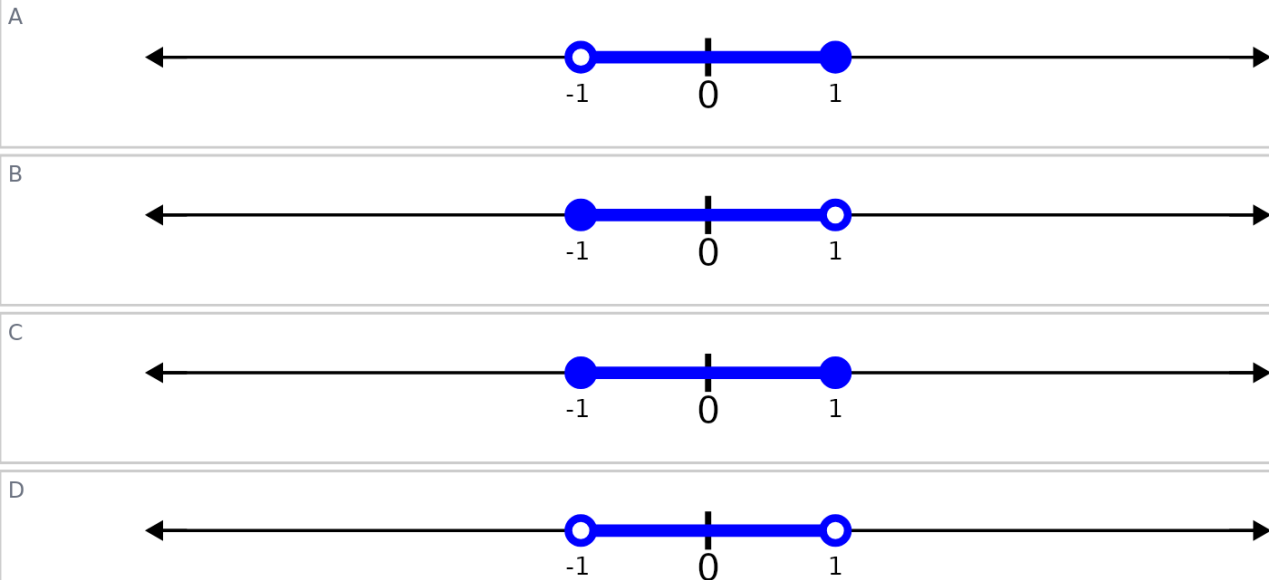
$$X \leq -6$$



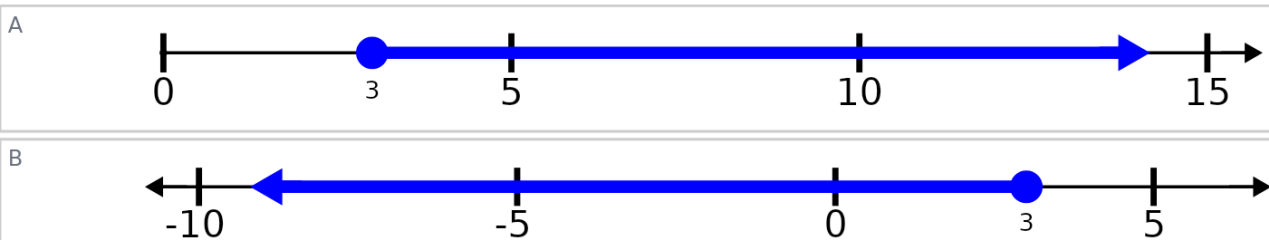


Equations and Inequalities

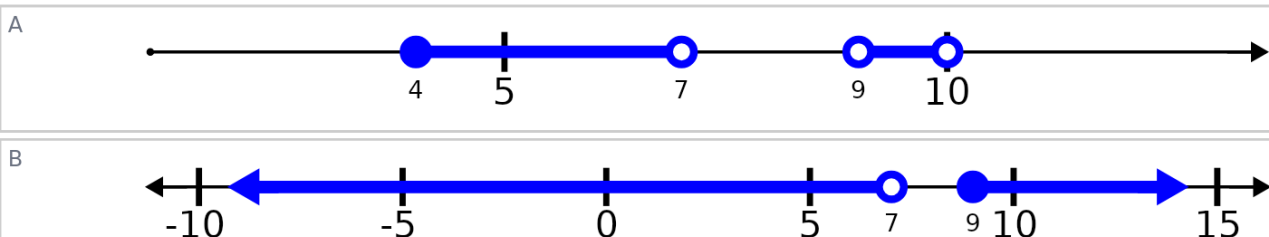
- 6 Which number line shows this inequality?
 $-1 \leq X \leq 1$



- 7 Which number line shows this range?
 $Y \leq 3$



- 8 Which number line shows this range?
 $Y < 7$ or $9 \leq Y$





Equations and Inequalities

9 Solve the one-step equation for x.

$$x + 2 = 11$$

A $x = 8$

B $x = 10$

C $x = 9$

D $x = 11$

10 Solve for the variable in the equation

$$b - 9 = -3$$

A $b = 6$

B $b = 8$

C $b = 9$

D $b = 7$

E $b = 3$

F $b = 5$

11 Solve the one-step equation for x.

$$-10 + x = -6$$

A $x = 6$

B $x = 4$

C $x = 3$

D $x = 5$

12 Solve for the variable in the equation

$$m + 9 = 15$$

A $m = 4$

B $m = 7$

C $m = 8$

D $m = 9$

E $m = 6$

F $m = 5$

13 Solve for the variable in the equation

$$d + 5 = 12$$

A $d = 8$

B $d = 5$

C $d = 10$

D $d = 6$

E $d = 4$

F $d = 7$

14 Find the fraction that makes this equation correct

$$\underline{\hspace{1cm}} + 2\frac{1}{7} = 5\frac{2}{7}$$

A $7\frac{4}{5}$

B $11\frac{16}{49}$

C $1\frac{3}{49}$

D $5\frac{3}{7}$

E $3\frac{1}{7}$

F $4\frac{4}{7}$

15 Find the fraction that makes this equation correct

$$2\frac{1}{3} + \underline{\hspace{1cm}} = 3\frac{5}{9}$$

A 13

B 3

C $2\frac{7}{12}$

D $3\frac{7}{9}$

E $1\frac{2}{9}$

F $3\frac{2}{9}$

16 Solve the one-step equation for x.

$$\frac{x}{5} = 9$$

A $x = 45$

B $x = 46$

C $x = 44$

D $x = 47$



Equations and Inequalities

17 Solve for the variable in the equation

$$4 \times y = 24$$

A	$y = 9$	B	$y = 8$
C	$y = 7$	D	$y = 4$
E	$y = 5$	F	$y = 6$

18 Solve for the variable in the equation

$$\frac{x}{8} = 7$$

A	$x = 56$	B	$x = 54$
C	$x = 53$	D	$x = 57$
E	$x = 58$	F	$x = 55$

19 Solve the one-step equation for x.

$$\frac{x}{8} = 11$$

A	$x = 90$	B	$x = 89$
C	$x = 88$	D	$x = 87$

20 Solve the one-step inequality for x.

$$\frac{x}{-6} \geq 12$$

A	$x \leq -71$
B	$x \leq -72$
C	$x < -72$
D	$x \geq -72$

21 Solve the one-step inequality for x.

$$x + 11 \leq 13$$

A	$x \geq 2$	B	$x < 2$
C	$x \leq 2$	D	$x \leq 3$

22 Solve the one-step inequality for x.

$$\frac{x}{2} < 1$$

A	$x \leq 2$	B	$x < 2$
C	$x < 3$	D	$x > 2$

23 Solve the one-step equation for x.

$$9x = 27$$

A	$x = 5$	B	$x = 3$
C	$x = 4$	D	$x = 2$

24 Solve the one-step equation for x.

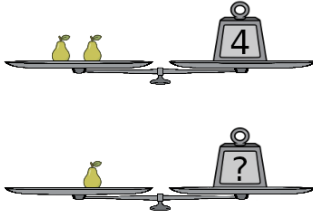
$$\frac{x}{8} = 11$$

A	$x = 88$	B	$x = 89$
C	$x = 87$	D	$x = 90$



Equations and Inequalities

25 Which equations represent what these scales are showing



26 Solve the one-step equation for x.

$$x - 3 = 5$$

A

$$x = 8$$

B

$$x = 10$$

C

$$x = 9$$

D

$$x = 7$$

27 Find the fraction that makes this equation correct

$$\frac{1}{5} - \frac{\quad}{\quad} = \frac{2}{15}$$

A

$$\frac{3}{5}$$

B

$$\frac{1}{5}$$

C

$$\frac{2}{11}$$

D

$$\frac{1}{25}$$

E

$$\frac{1}{15}$$

F

$$\frac{7}{16}$$

28 Find the fraction that makes this equation correct

$$\frac{\quad}{\quad} - \frac{2}{5} = \frac{11}{35}$$

A

$$\frac{8}{35}$$

B

$$\frac{2}{5}$$

C

$$\frac{6}{35}$$

D

$$\frac{5}{7}$$

E

$$\frac{13}{35}$$

F

$$\frac{3}{7}$$

29 Solve the two-step equation for x.

$$3x - 11 = 7$$

A

$$x = 7$$

B

$$x = 8$$

C

$$x = 6$$

D

$$x = 5$$

30 Solve the two-step equation for x.

$$2x + 9 = 19$$

A

$$x = 5$$

B

$$x = 7$$

C

$$x = 4$$

D

$$x = 6$$

31 Solve the two-step equation for x.

$$\frac{x}{2} - 3 = 1$$

A

$$x = 8$$

B

$$x = 7$$

C

$$x = 9$$

D

$$x = 10$$

32 Solve the two-step equation for x.

$$-5 + \frac{x}{6} = 2$$

A

$$x = 43$$

B

$$x = 41$$

C

$$x = 44$$

D

$$x = 42$$



Equations and Inequalities

33 Solve the two-step equation for x .

$$-5 + 8x = 27$$

A

$x = 3$

B

$x = 5$

C

$x = 4$

D

$x = 6$

34 Solve the two-step equation for x .

$$\frac{x}{5} + 12 = 14$$

A

$x = 11$

B

$x = 12$

C

$x = 9$

D

$x = 10$

35 Solve the two-step equation for x .

$$\frac{x}{3} + 4 = 10$$

A

$x = 18$

B

$x = 17$

C

$x = 20$

D

$x = 19$

36 What number can be put in the circle to make this equation correct?

$$7 \cdot \bigcirc + 3 = 45$$

A

$\bigcirc = 3$

B

$\bigcirc = 7$

C

$\bigcirc = 8$

D

$\bigcirc = 6$

E

$\bigcirc = 4$

F

$\bigcirc = 5$

37 What number can be put in the circle to make this equation correct?

$$\bigcirc + 3 = 18 - 7$$

A

$\bigcirc = 8$

B

$\bigcirc = 10$

C

$\bigcirc = 11$

D

$\bigcirc = 9$

E

$\bigcirc = 6$

F

$\bigcirc = 7$

38 Is $x = 3$ a solution to this linear equation?

$$4(2x + 6) = 4x + 44$$

A

No

B

Yes