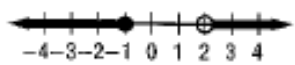
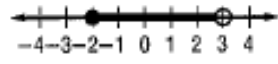


_____	1.	The cost of setting the type for a pamphlet is \$15 and the cost of paper and printing is 25 cents per copy. Write a formula which will give in dollars the total cost (T) of printing n copies. A. $T = 15 + 0.25n$ B. $T = 25 + 15n$ C. $T = 15 + 25n$ D. $T = 40n$
_____	2.	Translate "the product of x and y divided by three times their difference." A. $\frac{3(x-y)}{xy}$ B. $xy \div x - 3y$ C. $\frac{xy}{3(x-y)}$ D. $\frac{xy}{3x-y}$
_____	3.	Solve $\frac{3}{4}x = \frac{15}{2}$ A. 10 B. 20 C. 30 D. 40
_____	4.	Solve: $12x - 5x + 3 = 10$ A. -1 B. $\frac{7}{17}$ C. 1 D. $1\frac{6}{7}$
_____	5.	Solve: $x - 3(4 - x) = -8$ A. -5 B. -2 C. 1 D. 10
_____	6.	Solve: $-2(4x - 6) = 6 - 6x$ A. -9 B. -6 C. $1\frac{2}{7}$ D. 3
_____	7.	Solve: $\frac{3}{4}y + 8 = -7 - \frac{1}{2}y$ A. -12 B. $-\frac{4}{5}$ C. $\frac{4}{5}$ D. 12
_____	8.	Solve: $\frac{x}{2} + \frac{3}{2} = 1$ A. -2 B. -1 C. 1 D. 2
_____	9.	A baseball pitcher's earned-run average (E) is given by the formula $E = 9\left(\frac{a}{b}\right)$, where a is the number of earned runs the pitcher has allowed and b is the number of innings pitched. Solve the formula for b. A. $b = \frac{9a}{E}$ B. $b = \frac{9E}{a}$ C. $b = 9E - a$ D. $b = a - 9E$
_____	10.	Solve the formula $p = (k + 1)m$ for m . A. $m = \frac{p}{k+1}$ B. $m = \frac{k+1}{p}$ C. $m = p + k + 1$ D. $m = p - k - 1$
_____	11.	Solve for f: $T = mg - mf$ A. $f = \frac{Tg}{m}$ B. $f = \frac{mg+T}{m}$ C. $f = g - T$ D. $f = \frac{mg-T}{m}$
_____	12.	Solve the formula $P = w(l + 1)$ for l. A. $l = \frac{P-1}{w}$ B. $l = \frac{P-w}{w}$ C. $l = P + w + 1$ D. $l = P - w - 1$
_____	13.	Solve: $4 - (3 + 2x) > -7$ A. $x < 3$ B. $x > 3$ C. $x < 4$ D. $x > 4$
_____	14.	Solve: $7 - 2(4 - 4x) < 5 - (2 + 4x)$ A. $x > \frac{1}{3}$ B. $x < \frac{1}{3}$ C. $x < 1$ D. $x > 1$

_____	15.	Solve: $-3x - 4 > -2(x - 1)$ A. $x < -6$ B. $x > -6$ C. $x < -2$ D. $x > -2$
_____	16.	Solve: $-3x - 4 > -2(x - 1)$ A. $x < -6$ B. $x > -6$ C. $x < -2$ D. $x > -2$
_____	17.	Solve: $4 - (5 - 2x) \leq 6x - 25$ A. $x \leq 3$ B. $x \geq 3$ C. $x \leq 6$ D. $x \geq 6$
_____	18.	The charge to rent a car for a day is \$16. There is an additional charge of \$0.12 per mile. What is the greatest number of miles that a rented car can be driven in a day if the total bill is to be less than \$40? A. 160 miles B. 190 miles C. 199 miles D. 240 miles
_____	19.	Ali has twice as many coins as Gil. If the total number of coins they have is at least 40, what is the smallest number of coins that Gil can have? A. 13 B. 14 C. 26 D. 27
_____	20.	Solve $-4 < 2 + 3x \leq 14$ A. $-9 < x \leq 9$ B. $-2 < x \leq 4$ C. $-\frac{2}{3} < x \leq 4$ D. all real numbers
_____	21.	Solve: $-1 < x + 3 \leq 9$ A. $2 < x \leq 12$ B. $-1 < x \leq 6$ C. $-4 < x \leq 6$ D. $2 < x \leq 9$
_____	22.	The tensile strength of a material can be determined by the formula $t = \frac{\text{breaking force}}{\text{thickness} \cdot \text{width}}$. What breaking force would yield a tensile strength between 45,000 and 51,000 pounds per square inch for a strip of material 0.02 inches thick and 0.05 inches wide? A. (45 < breaking force < 51) pounds B. (255 < breaking force < 315) pounds C. (450 < breaking force < 510) pounds D. (2,550 < breaking force < 3,150) pounds
_____	23.	Solve: $\frac{y-3}{4} = \frac{3}{4}$ A. 12 B. 6 C. 0 D. -6
_____	24.	For what value of x will $\frac{x+2}{5} = \frac{x+1}{4}$ be true? A. 13 B. 9 C. 3 D. 2
_____	25.	Solve: $\frac{15}{2x+1} = \frac{5}{3}$ A. 2 B. 3 C. 4 D. 8
_____	26.	Solve: $\frac{x+1}{4} = \frac{5}{12}$ A. $\frac{2}{3}$ B. $\frac{3}{2}$ C. $\frac{19}{12}$ D. 4
_____	27.	The ratio of an object's weight on Earth to its weight on Mars is 5:2. How much would a man who weighs 165 pounds on Earth weigh on Mars? A. 66 pounds B. 166.5 pounds C. 400 pounds D. 412.5 pounds

_____	28.	The ratio of the sides of $\triangle ABC$ to the sides of a similar triangle, $\triangle XYZ$, is $\frac{5}{8}$. If the base of $\triangle ABC$ is 7m, what is the length of the base of $\triangle XYZ$? A. 4.4 m B. 5.7 m C. 9.3 m D. 11.2 m
_____	29.	Of the 20,000 votes cast in an election, 60% were for Franklin. How many were cast for the other candidates? A. 120 B. 800 C. 8,000 D. 12,000
_____	30.	A local store has a 25% discount on all clothing. How much would you have to pay for a suit which ordinarily sells for \$220? A. \$55 B. \$165 C. \$195 D. \$245
_____	31.	The following ordered pairs represent a function: $(-2, 10)$, $(-1, 7)$, $(0, 6)$, $(1, 7)$, and $(2, 10)$. Which equation could represent the function? A. $y = -4x + 2$ B. $y = x^2 - 6$ C. $y = 5x$ D. $y = x^2 + 6$
_____	32.	Which set of ordered pairs represents a nonlinear function? A. $(0, 0)$, $(1, 1)$, $(2, 2)$, $(3, 3)$, and $(4, 4)$ B. $(0, 0)$, $(1, -1)$, $(2, -2)$, and $(4, -4)$ C. $(0, -1)$, $(1, 0)$, $(2, 1)$, $(3, 2)$, and $(4, 3)$ D. $(0, 0)$, $(1, 1)$, $(2, 8)$, $(3, 27)$, and $(4, 64)$
_____	33.	Write a compound inequality for the graph.  A. $x < -1$ and $x \geq 2$ B. $x < -1$ or $x \geq 2$ C. $x \leq -1$ or $x > 2$ D. $x \leq -1$ and $x > 2$
_____	34.	Which compound inequality has the solution set shown in the graph?  A. $-2 < y < 3$ B. $-2 < y \leq 3$ C. $y \geq -2$ or $y < 3$ D. $-2 \leq y < 3$
	35.	Simplify: $0.\overline{36} \div 2$
	36.	Simplify: $0.\overline{36} + \frac{1}{2}$
	37.	Simplify: $0.\overline{36} \cdot \frac{5}{6}$
	38.	When eight is added to three times the number x , the result is equal to seven times the difference of the number x and six. What is the value of x ?
	39.	Alex walked 1 mile in 15 minutes. Sally walked 3,520 yards in 24 minutes. In miles per hour, how much faster did Sally walk than Alex? (Note: 1 mile = 1,760 yards)
	40.	The perimeter of a triangle is 51 centimeters. The lengths of its sides are consecutive odd integers. Find the lengths of the longest side of this triangle.