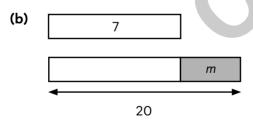


ADDITIONAL PRACTICES EQUATIONS AND INEQUALITIES

Exercise 8A Algebraic Equations

- I. Write these statements as equations.
 - (a) The sum of k and 12 is 20
 - **(b)** The product of 5 and m is 35
 - (c) The quotient of 4y and 3 is 20
 - (d) 8 subtracted from 3w is equal to 7
- **2.** Write two algebraic equations, one using addition and the other subtraction, to represent each diagram.

(a)	x		8	
	-	14		



Exercise 8B Solve Algebraic Equations by Adding or Subtracting

Solve each equation. I.

(a)
$$a + 14 = 20$$

(b)
$$b + 18 = 34$$

(c)
$$p + 63 = 91$$

(d)
$$k + 25 = 40$$

(e)
$$s - 12 = 18$$

(f)
$$h - 15 = 9$$

(g)
$$y - 35 = 29$$

(h)
$$k - 15 = 18$$

- **2.** Solve the following equations.
 - (a) 18m = 60

(b) 15y = 58 - 13

(c) 3.2k = 40

(d) 2.4p = 36

(e) $8h = 3\frac{1}{5}$

(f) $\frac{5}{6}v = \frac{3}{4}$

(g) $\frac{2}{3}z = 1\frac{2}{5}$

(h) $\frac{1}{2}b = 3\frac{7}{8}$

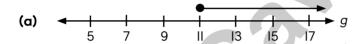
3. Celina has 80 stickers. She gives 4p stickers to her friend, and gives the remaining stickers equally to her 2 sisters. Each sister gets 30 stickers. Form an equation in terms of p and find the number of stickers Celina gives to her friend.

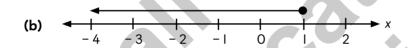
4. Mrs. Jones buys 7 T-shirts and 6 hats for \$86. The price of each T-shirt is \$3 more than each hat. How much does Mrs. Jones pay for a hat?

5. When I5 is added to twice a given number, the sum is 39. Find the given number.

Exercise 8J Simple Inequalities

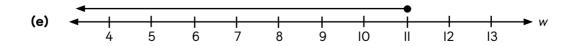
- I. Which of these numbers $\{-3, -1, 4, 5, 10, 18\}$ make the inequalities true?
 - (a) w < 5
 - **(b)** $p \ge 10$
 - (c) k > -1
 - **(d)** *m* ≤ 7
- 2. Write the inequality represented by each number line.











Chapter Practice

- I. Which one of the values below will make the equation 20 + 2k II = 23 true?
 - \bigcirc

(B)

(C) 13

- (D) 14
- **2.** The table shows the length of Mila's ribbon (*m*) and Ava's ribbon (*a*).

Mila's Ribbon (feet)	2	3	4	5
Ava's Ribbon (feet)	7	9	Ш	13

Which one of the following equations represents the relationship between Mila's ribbon and Ava's ribbon?

 \bigcirc a = m + 5

 \bigcirc a = 2m - 1

(c) a = 2m + 3

- (\mathbf{D}) a = 3m 2
- **3.** The difference between two numbers is I20. One of the numbers is four times the other number. Which one of the following equations represents the relationship between the two numbers?
 - (A) y 4y = 120

(B) y + 4y = 120

(c) 4y = 120

- (D) 4y y = 120
- **4.** Which one of the values below is a solution of $y \le 12$?



A 12

B) 13

(C) 14

- (D) 15
- **5.** Which of the following is the solution of $3k \le 18$?

 $B) k \ge \frac{8}{3}$

C k ≤ 6

 \bigcirc $k \ge 6$