

# Adding + Subtracting Equations

Identify each of the following as an expression or an equation.

- |                       |                    |                         |
|-----------------------|--------------------|-------------------------|
| a                     | b                  | c                       |
| 1. $3 + x$ _____      | $7 + 4 = 11$ _____ | $55 \times n$ _____     |
| 2. $x - 7 = 15$ _____ | $b - 45$ _____     | $24 = 6 \times 4$ _____ |

For each term below, identify the coefficient and the variable.

- |                                          |                                       |
|------------------------------------------|---------------------------------------|
| a                                        | b                                     |
| 3. $3x$ coefficient _____ variable _____ | $4y$ coefficient _____ variable _____ |
| 4. $z$ coefficient _____ variable _____  | $5n$ coefficient _____ variable _____ |
| 5. $7b$ coefficient _____ variable _____ | $m$ coefficient _____ variable _____  |
| 6. $r$ coefficient _____ variable _____  | $6d$ coefficient _____ variable _____ |

Translate each phrase into an algebraic expression.

- |                             |                                 |
|-----------------------------|---------------------------------|
| 7. five more than $n$ _____ | eight decreased by $x$ _____    |
| 8. $x$ added to seven _____ | the product of $n$ and 11 _____ |

Translate each sentence into an equation.

- |                                           |                                      |
|-------------------------------------------|--------------------------------------|
| 9. Six times a number is 18. _____        | Seventy less a number is 29. _____   |
| 10. Eight divided by a number is 2. _____ | The product of 7 and 12 is 84. _____ |

Write the following expressions in words.

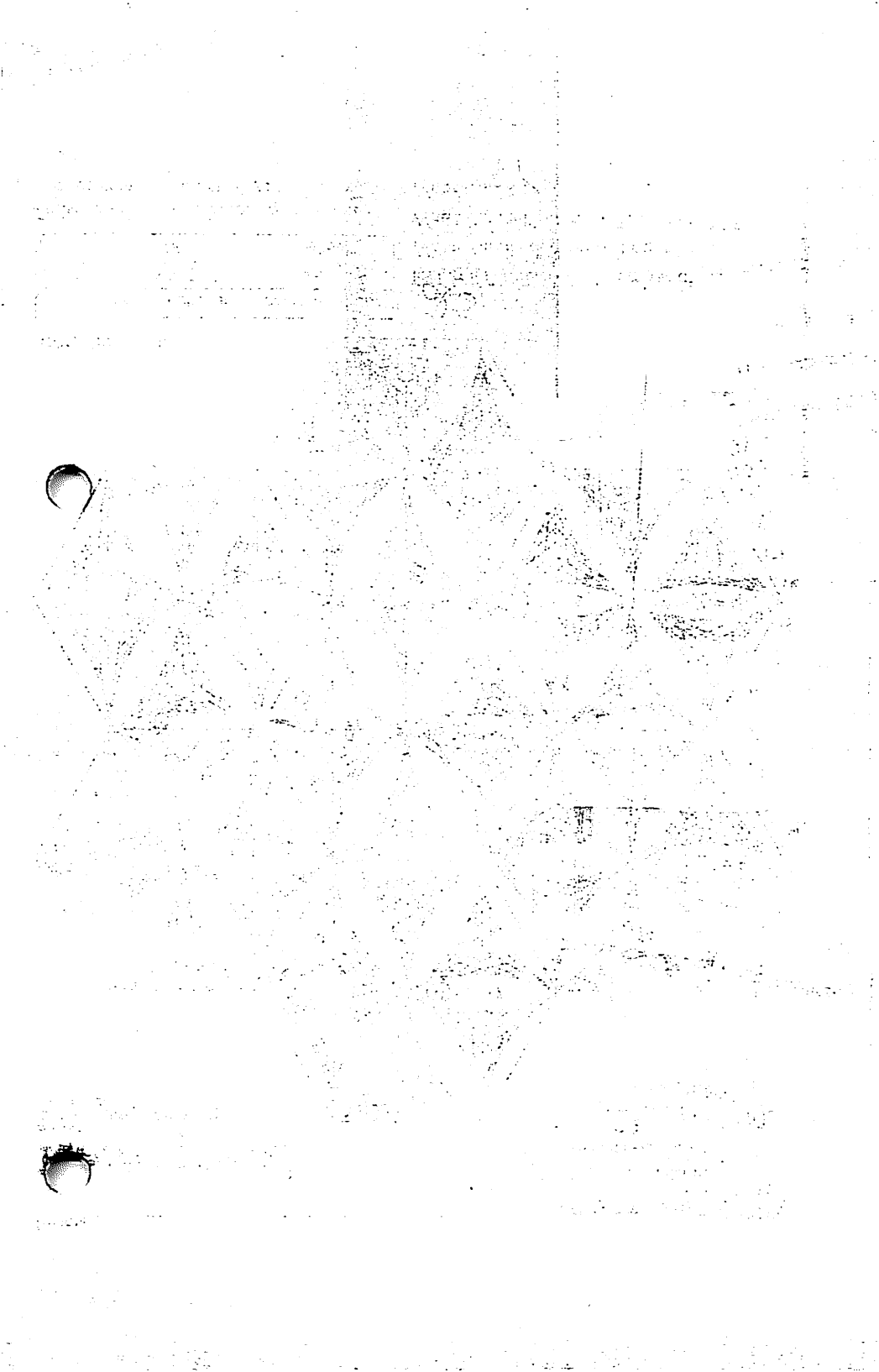
11.  $6 - n = 3$  \_\_\_\_\_
12.  $5 \times 13 = 65$  \_\_\_\_\_

Chapter 13, Lesson 4

Solve each equation.

- |                        |                    |                    |
|------------------------|--------------------|--------------------|
| a                      | b                  | c                  |
| 3. $a - 4 = 2$ _____   | $y + 5 = 9$ _____  | $x - 3 = 14$ _____ |
| 4. $7 = x - 4$ _____   | $b + 7 = 19$ _____ | $y + 5 = 5$ _____  |
| 5. $z - 7 = 5$ _____   | $m - 5 = 5$ _____  | $n + 1 = 1$ _____  |
| 6. $x + 7 = 10$ _____  | $x - 3 = 18$ _____ | $x + 0 = 9$ _____  |
| 7. $b + 4 = 4$ _____   | $b - 8 = 12$ _____ | $n + 8 = 12$ _____ |
| 8. $z - 10 = 20$ _____ | $z + 5 = 20$ _____ | $x - 2 = 8$ _____  |

**SHOW YOUR WORK**



Name \_\_\_\_\_

# Hexagonal Flowers

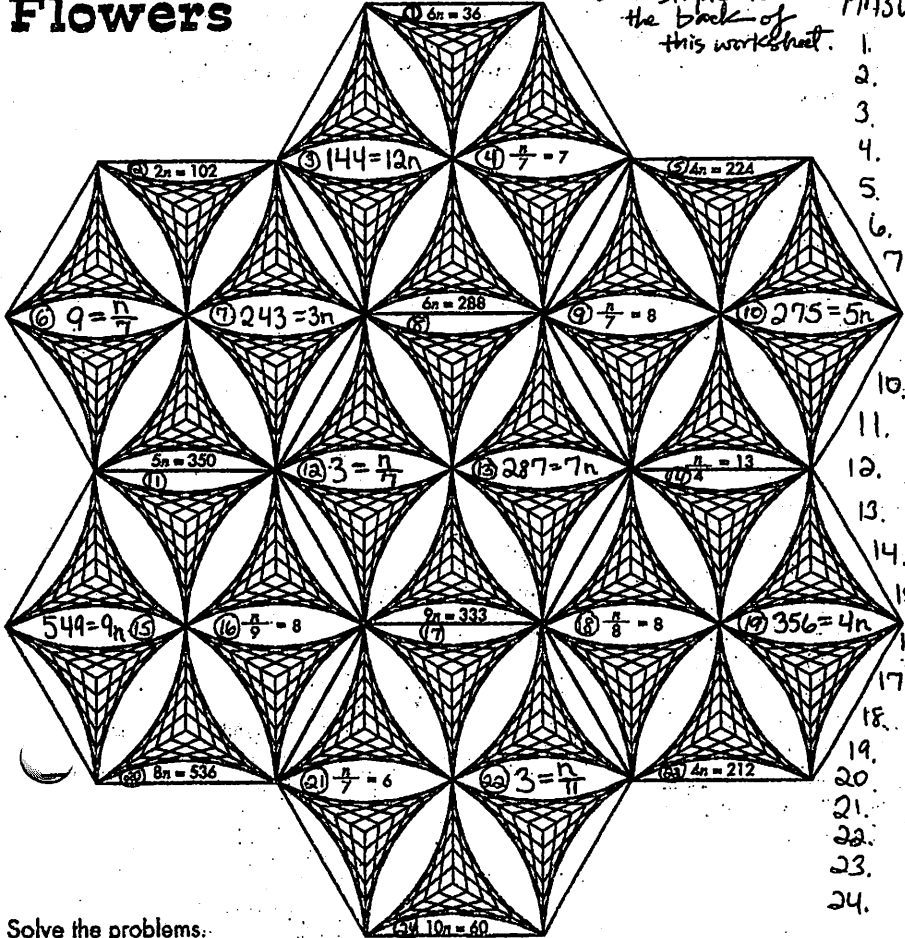
## EQUATIONS

Multiplication and Division  
 Show organized work  
 and staple to  
 the back of  
 this worksheet.



Answers:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.



Solve the problems.

If the answer is between \_\_\_\_\_ color the shape

0 and 50	orange
51 and 100	yellow

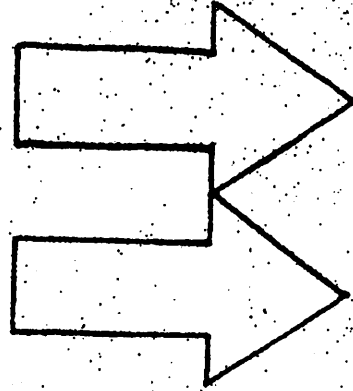
Finish the design by coloring the other shapes with the colors of your choice.

24

25.  
 Taking It Further: What number am I?  
 When I'm divided by 5, I equal 15.  
 When I'm multiplied by 3, I equal 225.  
 What number am I? \_\_\_\_\_

### Two-Way Street

See if you can make a third arrow that is the same size as the other two by adding only two straight lines.



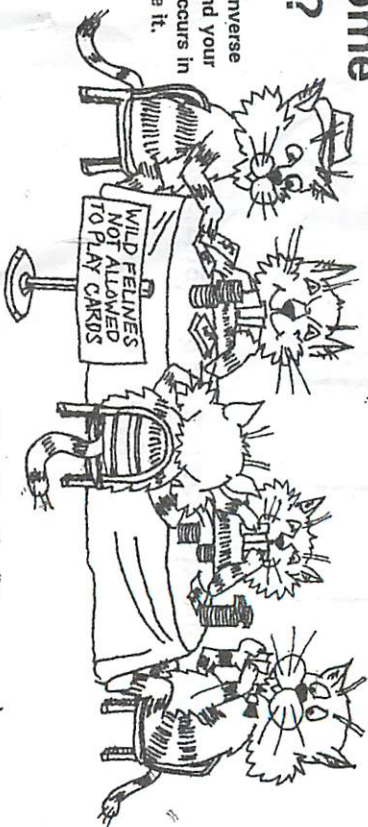
$$6+5 = 9???$$

Can you add five straight lines to these six and get nine?



## Why shouldn't some cats play cards?

**DIRECTIONS:** Solve each equation by using the inverse operation. *SHOW ALL WORK!* Find your answer in the decoder. Each time your answer occurs in the decoder, write the letter of the problem above it.



- $3 + g = 13$  ( $g =$  \_\_\_\_\_)
- $34 = a \cdot 2$  ( $a =$  \_\_\_\_\_)
- $\frac{h}{15} = 10$  ( $h =$  \_\_\_\_\_)
- $15 = d - 18$  ( $d =$  \_\_\_\_\_)
- $132 = m \times 11$  ( $m =$  \_\_\_\_\_)
- $150 = 210$  ( $o =$  \_\_\_\_\_)
- $\frac{i}{2.3} = 6.7$  ( $i =$  \_\_\_\_\_)
- $2.5e = 40$  ( $e =$  \_\_\_\_\_)
- $180 = t - 35$  ( $t =$  \_\_\_\_\_)
- $90 = 3l$  ( $l =$  \_\_\_\_\_)
- $7.2 = 0.36n$  ( $n =$  \_\_\_\_\_)
- $\frac{b}{5} = 31$  ( $b =$  \_\_\_\_\_)
- $4c = 60$  ( $c =$  \_\_\_\_\_)

14	20	16	12	15.41	10	150	215	155	16	17	30	15.41	14	20
17	20	33	14	20	16	12	15.41	10	150	150	215	155	16	
17					16	16		215		17		150		