

CHAPTER ONE. CANDY SHOP.

SET 1. Many children operate accounts at the SWEET TOOTH Candy shop. Calculate the total for each of these accounts.

Name	Frank	James	Mary	Gail	Nicole	Kevin	Betty
	\$ 4.56	\$ 5.78	\$ 3.56	\$ 7.82	\$ 2.34	\$ 5.34	\$ 8.72
	\$ 3.76	\$ 4.57	\$ 8.78	\$ 9.82	\$ 4.55	\$ 6.93	\$ 2.85
	\$ 4.56	\$ 2.78	\$ 6.78	\$ 8.49	\$ 8.93	\$ 8.83	\$ 6.74
TOTAL							
Name	Fay	Tommy	Leon	Lenny	Jane	Susan	Helen
	\$ 5.67	\$ 9.14	\$ 3.56	\$ 6.25	\$ 7.88	\$ 2.11	\$ 7.95
	\$ 5.83	\$ 6.78	\$ 5.78	\$ 8.93	\$ 6.84	\$ 4.63	\$ 6.84
	\$ 4.67	\$ 7.93	\$ 2.74	\$ 2.39	\$ 4.27	\$ 3.78	\$ 5.87
TOTAL							
Name	Frank	Timmy	Cathy	Colin	Jimmy	Sam	Hiedi
	\$ 5.88	\$ 8.14	\$ 4.54	\$ 6.45	\$ 6.86	\$ 4.15	\$ 2.94
	\$ 6.86	\$ 8.73	\$ 6.72	\$ 2.91	\$ 5.54	\$ 5.68	\$ 5.88
	\$ 3.56	\$ 7.89	\$ 6.34	\$ 7.39	\$ 8.25	\$ 5.73	\$ 7.87
	\$ 6.78	\$ 6.78	\$ 9.83	\$ 6.89	\$ 9.73	\$ 6.89	\$ 4.57
TOTAL							
Name	Harry	Benny	Wendy	Toni	John	Sugar	Skie
	\$ 3.45	\$ 6.74	\$ 8.59	\$ 9.47	\$ 6.88	\$ 8.14	\$ 3.54
	\$ 7.82	\$ 2.78	\$ 5.77	\$ 8.94	\$ 4.64	\$ 7.89	\$ 2.34
	\$ 4.66	\$ 4.19	\$ 1.44	\$ 3.34	\$ 4.21	\$ 6.83	\$ 6.37
	\$ 5.90	\$ 2.35	\$ 6.78	\$ 4.32	\$ 5.12	\$ 5.38	\$ 6.62
TOTAL							

SET 2. Calculate the change that each of the following children should receive with the given purchases.



Name	Penny	Peter	Adam	Mary	Ruth	Colin
Note	\$ 10.10	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00
Purchase	\$ 3.46	\$ 5.68	\$ 2.82	\$ 8.29	\$ 4.58	\$ 9.74
CHANGE						
Name	Donna	Eddy	Fay	Gail	Kevin	Susan
Note	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00
Purchase	\$ 3.98	\$ 5.98	\$ 12.94	\$ 16.56	\$ 12.37	\$ 17.82
CHANGE						
Name	Susan	Joe	Gail	Keith	Jill	Thomas
Total	\$ 23.40	\$ 40.50	\$ 50.10	\$ 31.60	\$ 42.30	\$ 82.40
Purchase	\$ 19.20	\$ 18.34	\$ 29.07	\$ 20.78	\$ 27.29	\$ 78.93
CHANGE						

SET 3. The following students wish to know how much they can earn in a two hour period by working at the SWEET TOOTH Candy shop. To determine this, multiply the hourly rate by two. Before completing this set, fill in the two times table.

1 x 2 =
2 x 2 =
3 x 2 =
4 x 2 =
5 x 2 =
6 x 2 =
7 x 2 =
8 x 2 =
9 x 2 =
10 x 2 =

Name	Susan	Joe	Jim	Jane	Donna	Ruth
Hourly	\$1.67	\$2.89	\$3.56	\$4.78	\$2.83	\$2.45
	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>
Total						
Hourly	\$2.45	\$7.66	\$8.07	\$3.94	\$5.83	\$7.86
	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>
Total						

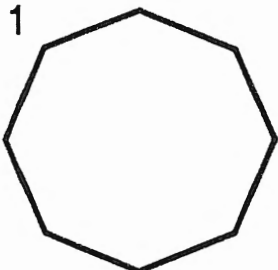
The students now wish to know how much they can earn by working twenty hours.


Name	Gail	Keith	Jill	Ruth	Susan	Adam	Betty
Weekly	\$12.67	\$60.73	\$43.82	\$93.44	\$35.64	\$132.18	\$246.64
	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>
TOTAL							
Name	Gaye	Kevin	Jane	Robin	Sid	Able	Anna
Weekly	\$23.69	\$48.78	\$76.28	\$96.73	\$86.44	\$236.48	\$357.13
	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>	<u>x 20</u>
TOTAL							

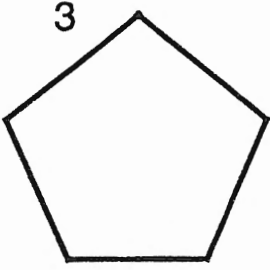
SET 4. Some students are wise. Each week, they place their earnings into a saving account at the bank. For each given student, calculate the amount of money in the bank account.

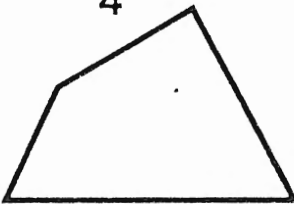
Name	Colin	Rick	Masie	March	Tiny	Nicole
Balance	\$68.35	\$89.96	\$86.58	\$67.80	\$567.89	\$987.32
Deposit	\$23.65	\$ 6.88	\$26.21	\$36.56	\$ 62.43	\$ 78.90
Deposit	\$11.68	\$ 9.94	\$ 6.84	\$ 7.89	\$ 45.33	\$ 70.80
TOTAL						
Name	Sam	Joan	Marie	David	Leo	Judy
Balance	\$89.37	\$68.91	\$76.93	\$84.98	\$425.78	\$617.45
Deposit	\$45.15	\$58.89	\$34.53	\$46.69	\$ 77.56	\$ 84.35
Deposit	\$45.66	\$27.56	\$29.72	\$38.66	\$ 35.63	\$ 58.54
TOTAL						
Name	Sid	Jean	Morris	Dean	Louise	Judith
Balance	\$75.67	\$94.91	\$88.32	\$74.91	\$405.53	\$345.79
Deposit	\$36.67	\$48.68	\$33.66	\$66.39	\$ 87.31	\$ 52.78
Deposit	\$57.36	\$57.12	\$64.32	\$68.69	\$ 83.28	\$ 46.83
Deposit	\$56.79	\$36.45	\$68.93	\$54.92	\$ 56.72	\$ 68.99
Deposit	\$34.21	\$37.73	\$56.93	\$45.29	\$ 48.32	\$ 82.86
TOTAL						

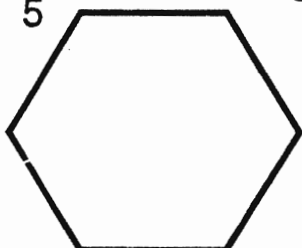
SET 8. Candy comes in many different shapes and sizes. Examine the various lollies illustrated. Name the basic geometrical shape in each case from the list provided and complete the table. Remember that a VERTEX is a "corner".

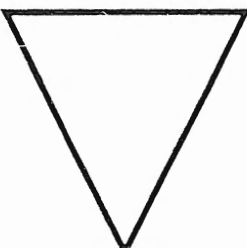
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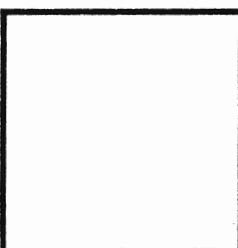
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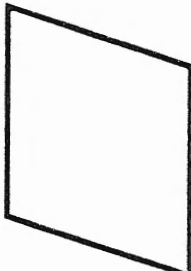
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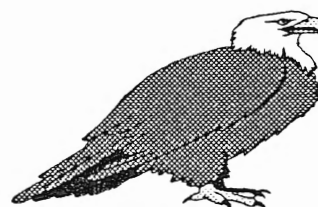
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7


8


Triangle Quadrilateral Square Rectangle Pentagon
Hexagon Octagon Parallelogram

No	Name	No. of Sides	No. of Vertices
1			
2			
3			
4			
5			
6			
7			
8			



SET 9. Often Jolly gets confused when school children talk in his shop. Complete the following calculations to show Jolly the meanings of the special words.

Increase 23 by 14	Subtract 13 from 25
Sum of 16 and 28	27 minus 19
Difference between 21 & 16	Add 32 to 24
Increase 77 by 33	126 plus 564
Add 895 to 125	44 more than 45
Take away 35 from 52	Decrease 56 by 29

Multiply 3 and 40		3 lots of 9	
Product of 2 and 17		2 times 19	
3 multiplied by 13		Reduce 70 by 49	
From 123 take 78		Multiply 3 by 10	
Product of 3 and 15		Divide 24 by 3	
Division of 36 by 3		Sum of 23 and 67	
Difference between 45 & 16		18 / 3	
Add 56 and 167		Sum of 37 and 237	
Reduce 37 by 13		Increase 15 by 36	
Total of 35 and 48		Subtract 26 from 63	
Difference between 67 & 39		120 / 2	
Product of 30 and 3		Decrease 82 by 54	

SET 10. a) Calculate the bills for the following specials

<u>SPECIALS</u>			
Mars Bars	67c	Big Lips	86c
Chips	32c	Peanuts	49c
Sugar Eggs	83c	Large Frogs	94c
Choc. Bars	75c	Toffees	58c

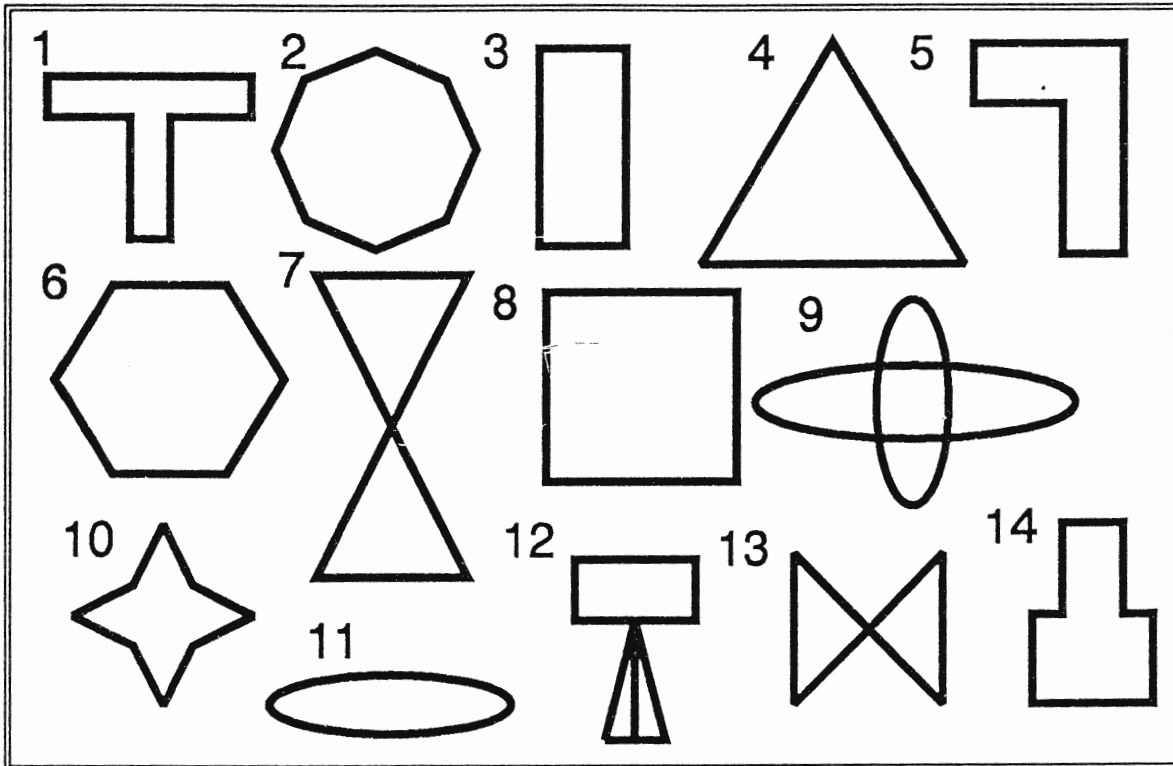
<i>Bill 1</i>		<i>Bill 2</i>		<i>Bill 3</i>	
2 Mars Bars 3 Peanuts		3 Chips 2 Large frogs		2 Sugar Eggs 3 Toffees	
Total		Total		Total	
<i>Bill 4</i>		<i>Bill 5</i>		<i>Bill 6</i>	
2 Big Lips 2 Toffees		3 Choc. Bars 3 Large frogs		3 Sugar Eggs 3 Big Lips	
Total		Total		Total	
<i>Bill 7</i>		<i>Bill 8</i>		<i>Bill 9</i>	
3 Mars Bars 2 Chips		2 Choc. Bars 2 Peanuts		2 Sugar Eggs 1 Choc. Bar	
Total		Total		Total	

b) A \$10 note is used to pay the bill. Calculate the Change.

1	2	3
4	5	6
7	8	9

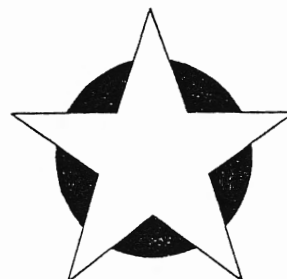
SET 11. Mrs. Jolly find some interesting "mirror" lines in some of the lollies. The "mirror" lines means that a shape can be folded so that one half fits exactly on the other half. A "mirror" line is called an **AXIS of SYMMETRY**.

(i) On the outlines of the lollies presented below, draw in one or more axes of symmetry if they exist.



(ii) Copy the figures from SET 8 into the spaces below and draw in their axes of symmetry (if any exist).

1	2	3
4	5	6
7	8	9



SET 12. Mrs. Jelly decides to out do Jolly. She has a special "4's day" in which all lollies are sold in groups of four. Help Mrs. Jelly price these Specials by completing the table below. Before you begin this set, complete the four times tables.

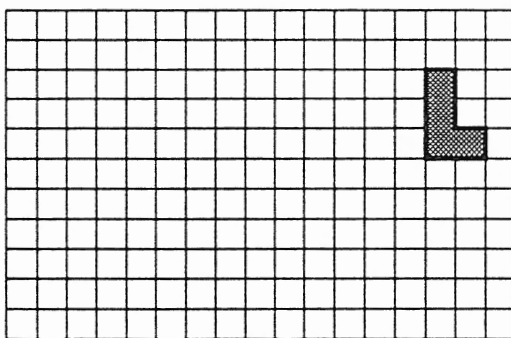
1 x 4 =
2 x 4 =
3 x 4 =
4 x 4 =
5 x 4 =
6 x 4 =
7 x 4 =
8 x 4 =
9 x 4 =
10 x 4 =

Chocs 23c x 4	Babies 16c x 4	Frogs 35c x 4	Stars 26c x 4	Limes 42c x 4	Darts 76c x 4
31c x 4	18c x 4	27c x 4	30c x 4	45c x 4	84c x 4

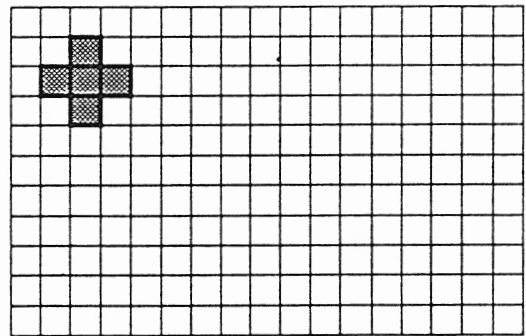
On the "4's day" Betty Jelly also sells Choc. Bars at special prices if the customer buys forty bars. Calculate the prices for Betty.

Reds \$ 1.32 x 40	Blues \$ 1.23 x 40	Bigs \$ 2.23 x 40	Maids \$ 4.45 x 40	Bears \$ 2.77 x 40	Crates \$ 3.36 x 40	Pinks \$ 4.50 x 40
3.55 x 40	\$ 4.88 x 40	\$ 4.27 x 40	\$ 5.71 x 40	\$ 5.88 x 40	\$ 3.75 x 40	\$ 2.87 x 40

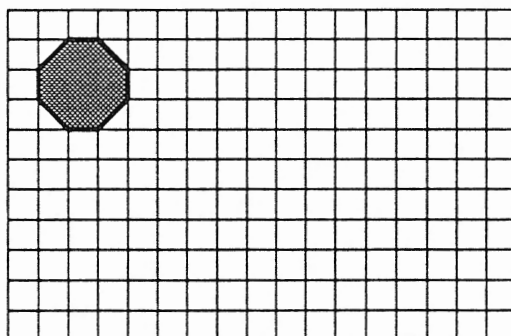
SET 13. Betty Jelly loves patterns. In mathematics these patterns are called Tessellations. For each piece of wall paper, complete the tessellation using the basic shape given.



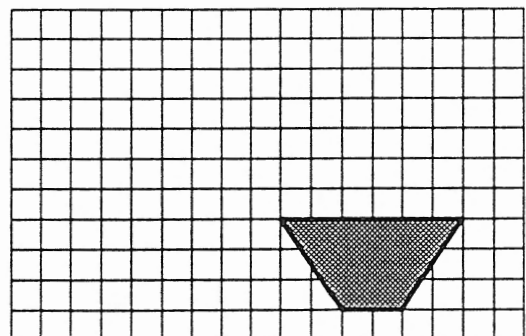
Tessellation One



Tessellation Two.



Tessellation Three



Tessellation Four.

SET 16. Calculate the average price of the following chocolate bars in the SWEET TOOTH shop. Prices in cents.

No	Individual Prices	No. of Bars	Total Price	Average Price
1	56 84			
2	48 52 50			
3	45 36 68 43			
4	82 96			
5	83 92 98			
6	68 64 66 70			
7	90 94			
8	36 38 28			
9	62 59 59			
10	74 78 72 76			
11	89 73			
12	59 51 52			
13	39 46 53			
14	70 63 58 73			
15	98 84			

SET 17. The SUGAR EGG company has confused Jolly Jelly by writing their bills in a very unusual manner. Help Jolly. Find the answers for him.

No	Bill	Answer
1	$6 + 12 / 3$	
2	$11 + 14 / 2$	
3	$7 + 8 \times 2$	
4	$12 - 6 \times 2$	
5	$12 - 9 / 3$	
6	$15 + 15 / 3$	
7	$8 + 15 - 7$	
8	$66 / 3 + 11$	
9	$60 / 4 - 13$	
10	$12 \times 2 + 8$	
11	$31 + 9 \times 4$	
12	$36 - 16 / 4$	

No	Bill	Answer
13	$24 / 2 + 7$	
14	$40 / 4 - 8$	
15	$9 \times 3 + 21$	
16	$11 \times 4 - 36$	
17	$27 / 3 + 19$	
18	$7 \times 4 - 19$	
19	$24 - 18 + 14$	
20	$35 - 28 - 6$	
21	$20 / 2 / 2$	
22	$6 \times 3 \times 2$	
23	$30 / 3 / 2$	
24	$8 \times 4 \times 2$	

SET 20. To become efficient behind the counter, Jolly Jelly must improve his speed of calculations. Complete these tasks to increase your speed.

(i) $8 + 1 + 2 + 7 + 9 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $3 + 8 + 5 + 4 + 7 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $5 + 6 + 7 + 8 + 4 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $9 + 8 + 7 + 6 + 5 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $2 + 4 + 6 + 8 + 9 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $8 + 5 + 7 + 2 + 6 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $\quad + \quad + \quad + \quad + \quad = \underline{\quad}$

(ii) $17 + 13 + 19 + 11 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $23 + 24 + 25 + 26 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $31 + 32 + 33 + 34 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $44 + 45 + 46 + 47 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $58 + 57 + 56 + 55 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $23 + 36 + 48 + 59 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad = \underline{\quad}$

(iii) $40 - 9 - 7 - 8 - 5 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $30 - 6 - 7 - 5 - 4 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $60 - 7 - 8 - 6 - 9 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $30 - 5 - 7 - 9 - 6 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $50 - 8 - 7 - 8 - 7 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $\quad - \quad - \quad - \quad - \quad = \underline{\quad}$

(iv) $56 - 11 - 12 - 13 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +2$
 $47 - 14 - 15 - 16 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $72 - 17 - 18 - 19 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $65 - 21 - 22 - 18 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $90 - 24 - 25 - 26 = \underline{\quad}$
 $\quad + \quad + \quad + \quad + \quad + \quad +$
 $\quad - \quad - \quad - \quad - \quad = \underline{\quad}$

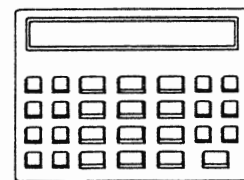
(v) $5 \times 2 \times 2 \times 2 \times 2 = \underline{\quad}$
 $6 \times 2 \times 3 \times 2 \times 3 = \underline{\quad}$
 $4 \times 3 \times 3 \times 3 \times 3 = \underline{\quad}$
 $2 \times 4 \times 2 \times 4 \times 4 = \underline{\quad}$

(vi) $32 / 2 / 2 / 2 / 2 = \underline{\quad}$
 $120 / 3 / 2 / 2 / 2 = \underline{\quad}$
 $81 / 3 / 3 / 3 / 3 = \underline{\quad}$
 $128 / 4 / 2 / 4 / 2 = \underline{\quad}$

(vii)

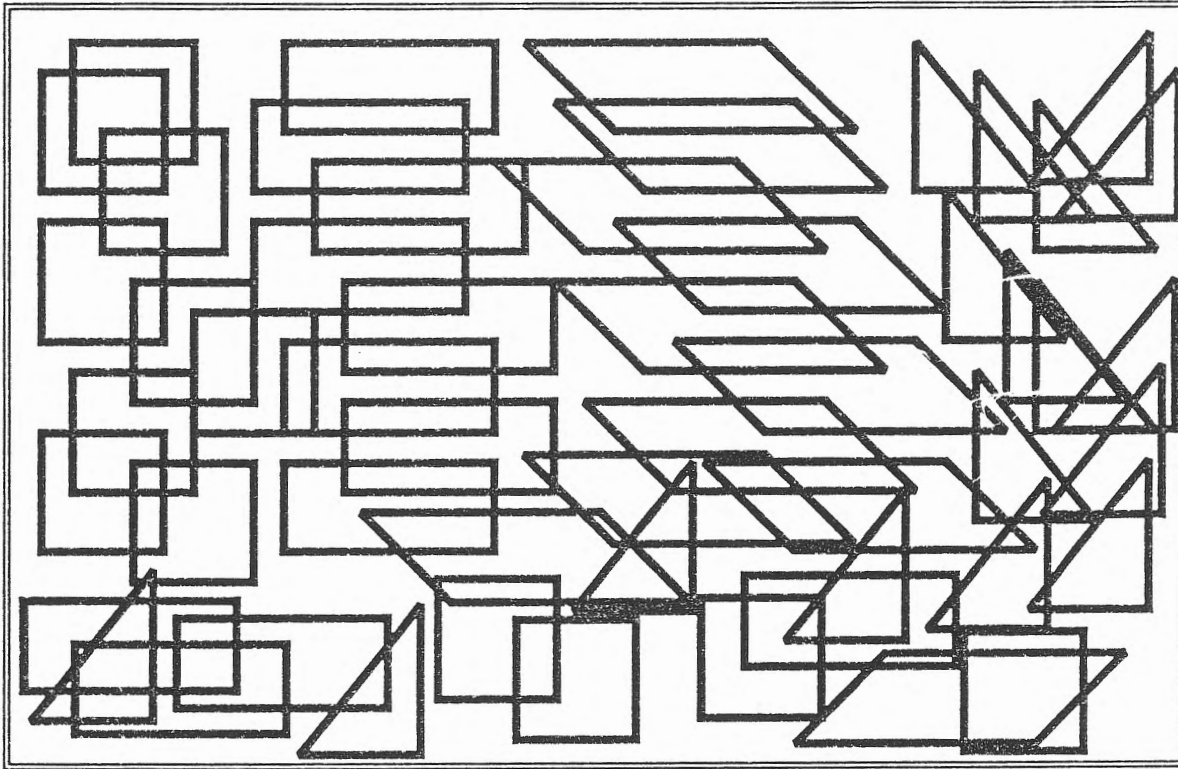
(viii)

(ix)



SET 21. Help Mrs. Jelly. Count and record the number of each shape of lolly that appears in the following diagram.

Squares	Rectangles	Parallelograms	Triangles
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SET 22. Find the listed mathematical words in the puzzle below. Cross out each word as you locate it. The remaining letters contain a message. What is the message?

A	E	N	N	G	F	L	S	U	M
E	R	V	O	E	O	S	C	N	A
A	A	E	I	N	U	M	B	E	R
N	U	R	S	I	R	U	B	T	G
R	Q	T	I	L	E	L	F	I	O
E	S	E	V	U	N	T	S	K	L
C	F	X	I	O	R	I	E	A	E
T	C	U	D	O	R	P	D	C	L
A	E	L	G	N	A	L	I	I	L
N	F	A	C	E	S	Y	S	R	A
G	N	O	G	A	X	E	H	C	R
L	L	E	E	R	H	T	L	L	A
E	O	C	T	A	G	O	N	E	P

- Rectangle
- Square
- Kite
- Parallelogram
- Vertex
- Sides
- Faces
- Circle
- Hexagon
- Octagon
- Multiply
- Sum
- Product
- Division
- Number
- Angle
- Four
- Ten
- Three
- Line

The message is