CHAPTER ONE. CANDY SHOP.

 $\underline{\mathtt{SET}\ 1.}$ Many children operate accounts at the SWEET TOOTH Candy shop. Calculate the total for each of these accounts.

Name	Fı	rank	Já	ames	Μá	ary	Gá	ail	N:	icole	Ke	evin	Ве	etty
	\$\$\$	4.56 3.76 4.56	\$\$\$	5.78 4.57 2.78	\$\$\$	3.56 8.78 6.78	\$\$\$	7.82 9.82 8.49	\$\$\$	2.34 4.55 8.93	\$\$\$	5.34 6.93 8.83	\$\$\$	8.72 2.85 6.74
TOTAL														
Name	Fa	ay	Тс	ommy	Le	eon	Le	enny	Ja	ane	Sı	ısan	Не	elen
	\$ \$ \$	5.67 5.83 4.67	\$ \$ \$	9.14 6.78 7.93		3.56 5.78 2.74	\$ \$ \$	6.25 8.93 2.39	\$ \$ \$	7.88 6.84 4.27	\$\$\$	2.11 4.63 3.78	\$\$\$	7.95 6.84 5.87
TOTAL														
Name	Fr	cank	Ti	mmy	Ca	thy	Co	olin	Ji	immy	Sā	am	Ні	ledi
	\$ \$ \$ \$ \$	5.88 6.86 3.56 6.78		8.14 8.73 7.89 6.78	\$ \$ \$ \$	4.54 6.72 6.34 9.83	\$\$\$\$	6.45 2.91 7.39 6.89	\$ \$ \$ \$ \$	6.86 5.54 8.25 9.73	\$ \$ \$ \$	4.15 5.68 5.73 6.89		2.94 5.88 7.87 4.57
TOTAL														
Name	Нε	arry	Be	enny	We	endy	ТС	oni	Jo	ohn	Sı	ıgar	Sk	xie
	\$\$\$\$	3.45 7.82 4.66 5.90	\$\$\$\$	6.74 2.78 4.19 2.35	\$\$\$\$	8.59 5.77 1.44 6.78	\$\$\$\$	9.47 8.94 3.34 4.32	\$\$\$\$	6.88 4.64 4.21 5.12	\$\$\$\$	8.14 7.89 6.83 5.38	\$\$\$\$	3.54 2.34 6.37 6.62
TOTAL														

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



Name	Penny	Peter	Adam	Mary	Ruth	Colin
Note Purchase	\$ 10.10 \$ 3.46	'	1 '	1 '		
CHANGE						
Name	Donna	Eddy	Fay	Gail	Kevin	Susan
Note Purchase	\$ 20.00 \$ 3.98		1 '	1 '	1 '	\$ 20.00 \$ 17.82
CHANGE						
Name	Susan	Joe	Gail	Keith	Jill	Thomas
Total Purchase	\$ 23.40 \$ 19.20	1 '	1 '		1 '	\$ 82.40 \$ 78.93
CHANGE					,	

<u>SET 3.</u> 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	х	2	=	
3	x x	2	=	
4 5 6 7	x	2	=	
5	Х	2	=	
6	×	2	=	
7	х	2	=	
8	х	2	=	
9	х	2	=	
10	х	2	=	

Name	Susan	Joe	Jim	Jane	Donna	Ruth
Hourly Total					\$2.83 x 2	
Hourly Total					\$5.83 <u>x</u> 2	

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

Name	Gail	Keith	Jill	Ruth	Susan	Adam	Betty
Weekly						\$132.18 x 20	
TOTAL							
Name	Gaye	Kevin	Jane	Robin	Sid	Able	Anna
Weekly						\$236.48 x 20	
TOTAL				,			

<u>SET 4.</u> 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 Deposit Deposit	\$68.35 \$23.65 \$11.68	\$89.96 \$ 6.88 \$ 9.94	\$86.58 \$26.21 \$ 6.84	\$67.80 \$36.56 \$ 7.89	\$567.89 \$ 62.43 \$ 45.33	\$987.32 \$ 78.90 \$ 70.80
TOTAL						
Name	Sam	Joan	Marie	David	Leo	Judy
Balance Deposit Deposit	\$89.37 \$45.15 \$45.66	\$68.91 \$58.89 \$27.56	\$76.93 \$34.53 \$29.72	\$84.98 \$46.69 \$38.66	\$425.78 \$ 77.56 \$ 35.63	\$617.45 \$ 84.35 \$ 58.54
TOTAL						
Name	Sid	Jean	Morris	Dean	Louise	Judith
Balance Deposit Deposit Deposit Deposit	\$75.67 \$36.67 \$57.36 \$56.79 \$34.21	\$94.91 \$48.68 \$57.12 \$36.45 \$37.73	\$88.32 \$33.66 \$64.32 \$68.93 \$56.93	\$74.91 \$66.39 \$68.69 \$54.92 \$45.29	\$405.53 \$ 87.31 \$ 83.28 \$ 56.72 \$ 48.32	\$345.79 \$ 52.78 \$ 46.83 \$ 68.99 \$ 82.86
TOTAL	·					,

Order Please

<u>SET 5.</u> The given teenagers worked in the SWEET TOOTH Candy shop for two hours and received the following wage. Find their hourly rate of pay.

Name	Pay	Rate	Name	Pay	Rate
Able	\$8.60		Col	\$7.50	
Bret	\$6.40		Ann	\$8.90	
Cain	\$4.68		May	\$6.34	
Don	\$7.56		Kim	\$5.82	

L		
Name	Pay	Rate
Eddy	\$11.50	
Fay	\$16.32	
Gail	\$24.68	
Helen	\$23.74	

Name	Pay	Rate
Leo	\$15.00	
May	\$21.00	
Nancy	\$17.84	
Pat	\$29.90	

Name	Pay	Rate
Bill	\$45.62	
Pam	\$69.68	
Neil	\$44.84	
Helen	\$39.10	

SWEET TOOTH Candy Short

<u>SET 6.</u> Mr. Jelly has a special "3's day" in which all lollies are sold in groups of three. Help Mr. Jelly price these Specials by completing the table below. Before you begin this set, complete the three times tables.

					_
1	x	3	=		
2	х	3	=		
2 3 4 5	Х	3	=		
4	х	3	=		
	Х	3	=		
6	Х	3	=		
7	Х	3	=		
8	Х	3	=		
-	х	3	=		
10	Х	3	=		
11					

Chocs 24c x 3	Babies 17c x 3	Frogs 36c x 3	Bears 27c x 3	Limes 43c x 3	<i>Mints</i> \$3.25 x 3
				2	
32c x 3	· 19c x 3	28c x 3	31c x 3	46c x 3	\$2.64 × 3

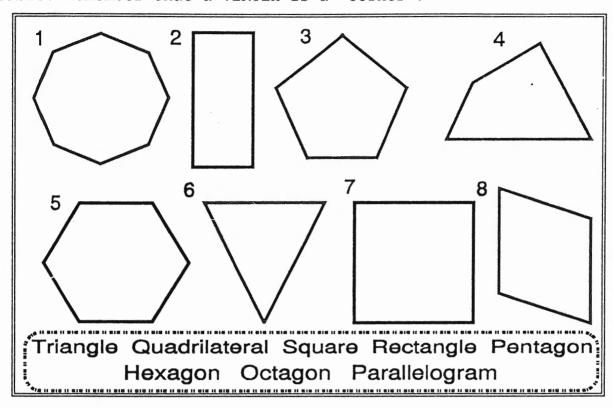
On the "3's day" Jolly Jelly also sells Choc. Bars at special prices if the person buys thirty bars. Calculate the prices.

**Reds	### ### ### ### ######################	Bigs \$ 2.24 × 30	Maids \$ 4.46 × 30	Bears \$ 2.78 x 30	Crates \$ 3.37 x 30	Pinks \$ 24.51 × 30
3.56	\$ 4.89	\$ 4.28	\$ 5.72	\$ 5.89	\$ 3.76	\$ 22.88
x 30	x 30	x 30	x 30	x 30	x 30	x 30

<u>SET 7.</u> Complete this division table. <u>N.B.</u> In this series of books the computer symbol / is used for the division sign.

/	36	60	54	30	42	66	96	120	108	132	144
2											
3									,		

<u>SET 8.</u> 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".



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

SPECIALSMars Bars67cBig Lips86cChips32cPeanuts49cSugar Eggs83cLarge Frogs94cChoc. Bars75cToffees58c

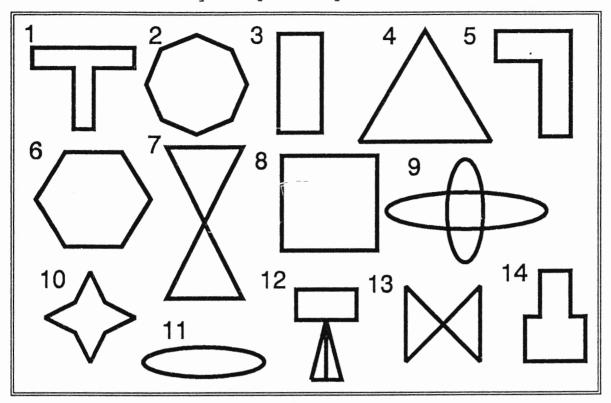
Bill 1	Bill 2	Bill 3
2 Mars Bars 3 Peanuts	3 Chips 2 Large frogs	2 Sugar Eggs 3 Toffees
Total	tal Total	
Bill 4	Bill 5	Bill 6
2 Big Lips 2 Toffees	3 Choc. Bars 3 Large frogs	3 Sugar Eggs 3 Big Lips
Total	Total	Total
Bill 7	Bill 8	Bill 9
3 Mars Bars 2 Chips	2 Choc. Bars 2 Peanuts	2 Sugar Eggs 1 Choc.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

<u>SET 11.</u> 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).

	2 , 2	
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.

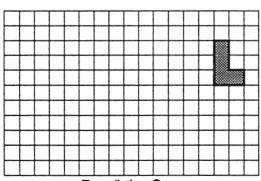
1	×	4	=	
2	х	4	=	
3	х	4	=	
4	х	4	=	
5	х	4	=	
6	х	4	=	
7	х	4	=	
8	х	4	=	
9	x	4	=	
10	х	4	=	
11				

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

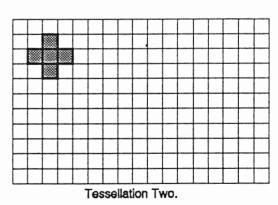
On the "4's day" Betty Jelly also sells Choc. Bars at special prices if the customer buys forty bars. Calculate the prices for Betty.

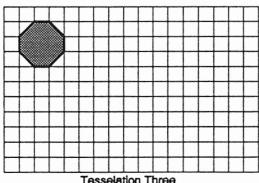
**Reds \$ 1.32 x 40	Blues \$ 1.23 x 40	Bigs \$ 2.23 x 40	1 1		Crates \$ 3.36 x 40	Pinks \$ 4.50 × 40	
3.55	\$ 4.88	\$ 4.27	\$ 5.71	\$ 5.88	\$ 3.75	\$ 2.87	
x 40	x 40	× 40	x 40	x 40	× 40	x 40	

<u>SET 13.</u> 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.

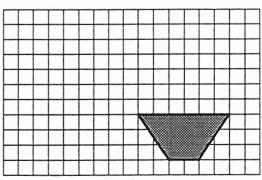


Tessellation One





Tesselation Three



Tessellation Four.

<u>SET 14.</u> Often 2, 3 or 4 friends combine to purchase lollies in bulk for the SWEET TOOTH Candy Shop. Calculate the amount each student will have to pay by dividing.

Cost of sweets No. of friends	\$46.92	\$36.93 3	\$21.28	\$20.96	\$28.32	\$501.60 4
Cost per person						
Cost of sweets No. of friends	\$86.46	\$96.24 3	\$61.28 4	\$93.38 2	\$46.02	\$776.10
Cost per person						
Cost of sweets No. of friends	\$33.80 4	\$36.18 3	\$19.92 4	\$29.04	\$34.96 4	\$982.40
Cost per person						
Cost of sweets No. of friends	\$20.96 4	\$71.44 4	\$19.56 4	\$19.12	\$76.08 4	\$578.40 3
Cost per person						

<u>SET 15.</u> To calculate accounts quickly Mr. Jelly wants a ready available table. Help Jolly by completing the following tables for him.

[a] Addition

+	6	11	9	15	7	17	32	48	63	85	943
18											
32											
45											
66											•
87											

[b] Multiply

х	4	5	6	7	8	9	10	11	12	13	140
2											
4											
3											

[c] Division

	12	24	60	.84	36	96	48	72	132	168	228
2											
3											
4											

 $\underline{\mathtt{SET}\ 16.}$ Calculate the average price of the following chocolate bars in the SWEET TOOTH shop. Prices in cents.

No	Indi	vidu	al	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									

 $\underline{\mathtt{SET}}$ 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 x 2	,
4	12 - 6 x 2	
5	12 - 9 / 3	
6	15 + 15 / 3	
7	8 + 15 - 7	
8	66 / 3 + 11	
9	60 / 4 - 13	
10	12 x 2 + 8	
11	31 + 9 x 4	
12	36 - 16 / 4	

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

SET 18. Some students spend most of their pocket money at the SWEET TOOTH Candy shop. Some of Jolly's Prices are given below. Calculate the bill of each of the following students and the change left from \$ 20.00. "Shorthand" is used in some of the bills.



						=						
Milk S	hake	Ice	Cream	Mar	s Ba	r	Sodas	App1	e	Slices	Chi	ps
86c				4 4 4		97c	\$ 1.49		49	58	С	

Jimmy	Jay	Simon
2 Ice = 3 Milk =	3 Sodas = 4 Apple =	2 Chips = 1 Milk =
TOTAL =	TOTAL =	TOTAL =
CHANGE =	CHANGE =	CHANGE =
Susan	Benny	Fred
4 Ice = 2 Milk =	2 Sodas = 4 Mars =	3 Chips = 4 Ice =
TOTAL =	TOTAL =	TOTAL =
CHANGE =	CHANGE =	CHANGE =
John	Jayne	Annmaree
2 Mars = 1 Chips = 4 Milk =	3 Ice = 1 Apple = 4 Sodas =	3 Mars = 1 Soda = 4 Chips =
TOTAL =	TOTAL =	TOTAL =
CHANGE =	CHARGE =	CHARGE = '
Wendy	Francis	Wayne
2 Mars = 3 Apple =	4 Apple = 3 Mars =	3 Sodas = 3 Mars =
TOTAL =	TOTAL =	TOTAL =
CHANGE =	CHANGE =	CHANGE =
Jeanie	Nicole .	Lynette
3 Ice = 2 Milk = 4 Mar =	4 Chips = 2 Apple = 1 Ice =	4 Milk = 4 Chips = 4 Apple =
TOTAL =	TOTAL =	TOTAL =
CHANGE =	CHANGE =	CHANGE =

SET 19. Complete the following quick division table.

	16	36	28	20	44	56	64	76	104
4								,	

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 =8 5

+ 32 + 33 + 34 = 46 + + 56 + 55 =23 + 36 + 48 + 59 =

24 + 25 + 26 =

(ii) 17 + 13 + 19 + 11 =

(iii) 40 - 930 60

(iv) 56 - 11 - 12 - 13 = 14 - 15 - 16 = 18 - 19 =90 - 24 - 25 - 26 =

(v) $5 \times 2 \times 2 \times 2 \times 2 =$ (vi) 32 / 2 / 2 / 2 / 2 =6 x 2 x 3 x 2 x 3

120 / 3 / 2 / 2 / 2 = ____

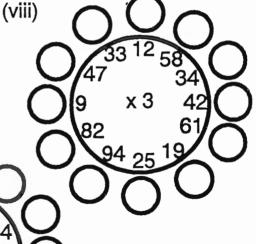
4 x 3 x 3 x 3 x 3

81 / 3 / 3 / 3 / 3 = ____

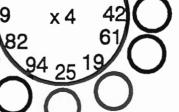
2 x 4 x 2 x 4 x 4

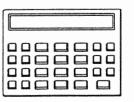
128 / 4 / 2 / 4 / 2 = ____

(vii) - 18 (ix)

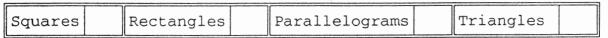


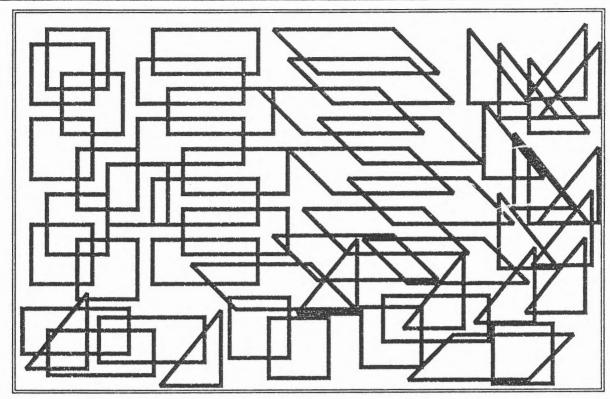






SET 21. Help Mrs. Jelly. Count and record the number of each shape of lolly that appears in the following diagram.





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	σ	М
E	R	v	0	E	0	S	С	N	A
A	A	E	I	N	υ	M	В	E	R
N	σ	R	S	I	R	υ	В	т	G
R	Q	т	I	L	E	L	F	I	0
E	S	E	V	σ	N	т	S	ĸ	L
С	F	х	I	0	R	I	E	A	E
т	С	σ	D	0	R	P	D	C	L
A	E	L	G	N	A	L	I	I	L
N	F	A	С	E	ន	Y	S	R	A
G	N	0	G	A	х	E	н	С	R
L	L	E	E	R	Н	·T	L	L	A
E	0	С	т	A	G	0	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