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Mathematical Problem Solving Project - Using

Tables.

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ABSTRACT

This problem deck contains over 150 problems related to the module "Using Tables to Solve Problems." The problems are presented at five levels of difficulty and contain four basic types of two-dimensional tables: (1) constant sum; (2) constant differences; (3) constant quotient or ratio; and (4) constant product. (MP)

USING

TABLES

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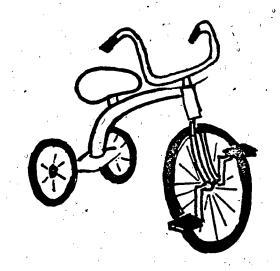
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1BC1

If you can complete the table, you can solve the problem.

COMPLETE THE TABLE:



Number of tricycles	٠, 5	5	. 53	20		•		
Number of . wheels			30		24	300		

2BC1

7 drips of water from this faucet weigh 1 gram.

COMPLETE THE TABLE.

Drops	7				•		
Grams	1	2	3	5.	9	10	- 15

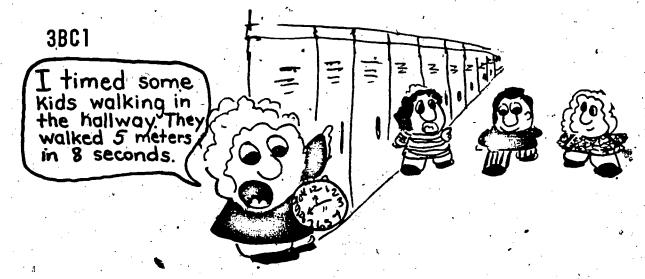


T 1BC1

Tricycles	5	1:0	20	8	100
Wheels	15	30	60	24	300

T 2BC1

	Drops	7	14	21	35	6.3	70	105
1	Grams	1	2	. 3.	5	ģ	10	15



COMPLETE THE TABLE.

Meters	5	10		30	35	3
Seconds	8		32			80

4BC1



When this screw is turned 5 times, it moves into the wood 1 centimeter.

COMPLETE THIS TABLE.

Turns	5	10	15	20	₂ 25	30	35
Distance (cm)	1						,

ERIC

T 3BC1

Meters	5	10	20	- 30	35	50
Seconds	8	16	32	48	56	80

T 4BC1

Turns	5	10	15	20	25	30	35
Distance (cm)	1	2	3	4	5	6	7

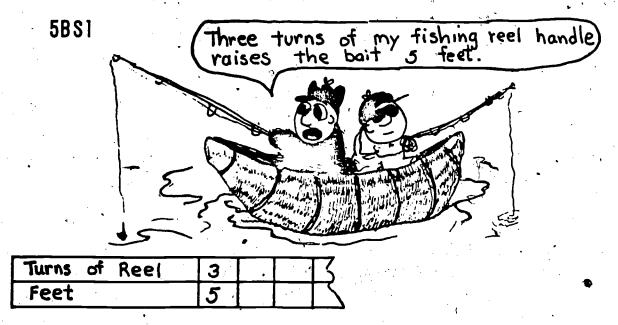
T 5BS1

- 1. 9 turns
- 2. 20 feet

6BM1

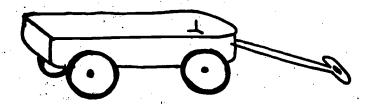
our table could include these entries:

Wage	ons	1	. 2	3	4	5	10	100	1000
Whee	els,	. 4	8.	12	16	20	40	400	4000



- 1. The fish locator shows fish at 15 feet. How many turns of the handle should I make to lower the bait 15 feet?
- 2. About how deep are you fishing when it takes 12 turns of the handle to raise the bait to the surface?

6BM1



MAKE A TABLE WITH 5 MORE ENTRIES TO SHOW THE NUMBERS OF WHEELS NEEDED.

Wagons	1	2	15
Wheels	4	. 8	7

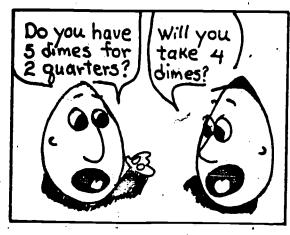
T 7BM1

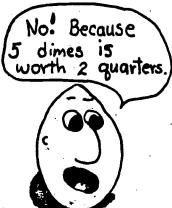
Dimes	5	10	15 ″	25	40	·50
Quarters	2	4	6	10	16	20

T 8BC1

Trucks	1	10	3	5	4	6
Wheels	12	120	36	60	48	72

7BM1







COMPLETE THE TABLE.

Dimes	² 5	0		25		50
Quarters	2	•	6		16	

8BC1



COMPLETE THE TABLE.

				<u> </u>			
Number trucks	of	1	. 10			· 4	
Number wheels	of	12		36	60		72

Cans of orange juice	1	2	4	10	. 7
Quarts of water	3	, 6	12	30	21

Three cans of frozen orange juice would be mixed with 9 quarts of water.

T 10BC1

Wagons	3	5	4	10	50	100
Wheels	12	20	16	40	200	400

9BC1

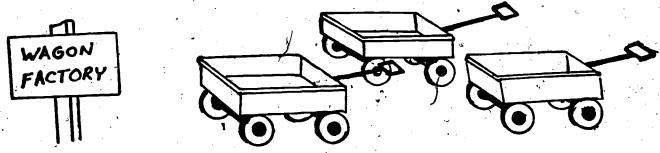


SHOW THE MIXTURES IN THE TABLE.

Cans of orange juice	1	. 2	4	10	7
Quarts of , water	, 3 ,		.*		

How many cans of frozen orange juice should you buy to mix with 9 quarts of water?

10 BC1



COMPLETE THE TABLE.

Wagons	. 3	5			50	,
Wheels			16	40	ţ	400

T 11BM1

The table could have these entries:

Red	1	2.	3	4.7	5	6	7
Yellow	. 3	6	9.	12	15	18	21

T 12BS1

Daseball cards	2	4	· 6	8	10	20
Football cards	1	2	3	4	. 5	10

- 1. 3 football cards for 6 baseball cards.
- 2. 10 baseball cards for 5 football cards.
- 3. 10 football cards for 20 baseball cards.

If you have red and yellow food coloring, you can make orange food coloring. 1 drop of red and 3 drops of yellow makes orange.

MAKE A TABLE WITH 5 MORE ENTRIES.

Red	1	 3
Yellow	3	Z

12BS1

Walt and Jim trade sport cards. Two baseball cards can be traded for 1 football card.

Baseball	Cards	2		Z
Football	cards	1		

- 1. How many football cards will Walt get for 6 baseball cards?
- 2. How many baseball cards will Jim get for 5 football cards?
- 3. Walt trades 20 baseball cards. How many football cards will he get?



T 13BS1

B a sketball į̇́́	1	2	,3	4	6
Players	10	2 _i 0	30	40	60

- 1. 30 players
- 2. 4 basketballs
- 3. /60 players

T 14BM1

Your table could include these entries:

Number of passengers	1	2	3.	4	10
Number of kg baggage	20	40	60	80	200





Complete the table.

Basketballs	1	2	3	•	6
Players	10	20	•	40	•

- 1. If we have 3 basketballs, how many players can we have?
- 2. If we have 40 players, how many basketballs do we need?
- 3. If we have 6 basketballs, how many players can we have?





Every passenger can bring 20 Kilograms of baggage.





MAKE A TABLE WITH 5 MORE ENTRIES.

Number of passengers	1.		
Number of kg baggage	20	•	<

T 15BR1

- 1. 10 small wheels for 5 tricycles.
- ,2. 7 large wheels for 7 tricycles.
- 3. 6 tricycles use 18 wheels.

T 16BM1

Sample answers.

*					
Money	3¢	`6¢	9¢	30¢	\$3
Miles	. 1	2	3	10	100

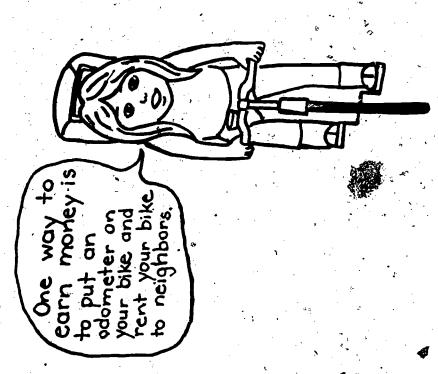
15BR1

We counted tricycle wheels.
Use our table to solve the problems.

Tricycles	1	2	3	4	1.5	16	17
Small wheels	2	.4	6	8	10	12	14
Large wheels	13	2	3,	4	5	6	7
Total wheels	3	6	9	12	15.	18	21

- 1. How many small wheels for 5 tricycles?
- 2. How many large wheels for 7 tricycles?
- 3. There are 18 wheels. How many tricycles are there if they have 18 wheels?

16BM1



MAKE A TABLE WITH 5 MORE ENTRIES TO SEE HOW MUCH MONEY YOU COULD MAKE IF YOU CHARGE 3¢ A MILE

•	MAKE IF Y	YOU CH	CHARGE 30	 	- ≪़	Z Z
	Money	3.6			\	•
	Miles			_	\	

T 17BS1

- 1. 350
- 2. 10
- 3. \$1.00

T 18BS1

The table would help:

Bottles	4.	1	2	3	4	10	20	30	40
Weight		. 8	.16	24	, 32	80	160	240	320

- 1. 32 pounds.
- 2. 3 bottles.
- 3. 20 bottles.

COMPLETE THE TABLE.

Number of nickels	1.	2	
Value of nickels	5¢	1 0¢	



- 1. Sue has 7 niekels What is their value?
- 2. Steve has 500 worth of nickels. How many does he have?
- 3. Mary has 20 prokels. What is their value?

18BS1



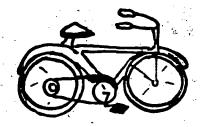


COMPLETE THE TABLE.

Number of bottles	1	2	{
Weight of bottles	.8	16	7

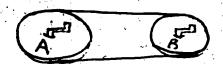
- 1. Mike brought 4 bottles of juice. What did they weigh?
- 2. Nel brought 24 pounds of juice. How many bottles did she bring?
- 3. The school needs 160 pounds of juice. How many bottles should they order?

	Bicycles .	1	{
99,	Wheels	- 2	3
•			2.



- 1. Five bicycles are in a rack. How many wheels do they have?
- 2. Jack counted 8 wheels on the bicycles in his garage. How many bicycles were there?
- 3. There were 100 bicycles at the swimming pool. How many wheels did they have in all?
- 4. Jill said that 80 bicycle tires passed her house. How many bicycles was that?

30BC1



Pulley A turns 2 times for every 5 turns of pulley B.

COMPLETE THE TABLE.

Turns of A	2	4	6	8	10	20	30	40
Turns of B	5	4						



T 29BS1

This table would help:

Bicycles	1	. 2	4	8	10	20	80	100
Wheels	2	4	8	- 16	20	40	160	200

- 1. 10 wheels.
- 2. 4 bicycles.
- 3. 200 wheels.
- 4. 40 bicycles.

T 30BC1

Turns of A	2	4	6	8	10	.20	30	40
Turns of B	5	10	15	20	25	50	75	100



27BR1

Table of Squares

N	N×N	N	N×N	N	N×N	N	NxN
1	1	6	° 36	11	121	16	256
2	4	7	49	12	144	17	289
3	9	8	64	13	169	18	324
4	16	9.	81	14	196	19	361
5	25	10	100	15	225	20	400

The square of 13 is 169.

FIND THE SQUARES OF THESE NUMBERS.

1. 18

4. 16

2. 14

5. 11

3. 19

6. 15



28BB1

A cartoon commercial runs at 24 frames per second. An artist has to draw a cartoon for each frame.

Seconds	1	2		\Box
Frames	24	48		2

How many cartoon drawings does an artist have to make for a 15 second commercial?

T 27BR1

- 1. The square of 18 is 324.
- 2. The square of 14 is 196.
- 3. The square of 19 is 361.
- 4. The square of 16 is 256.
- 5. The square of 11 is 121.
- 6. The square of 15 is 225.

T 288B1

360 drawings for the 15 second commercial.

One team thought: 240 for 10 seconds

120 for 5 seconds

360 for 15 seconds

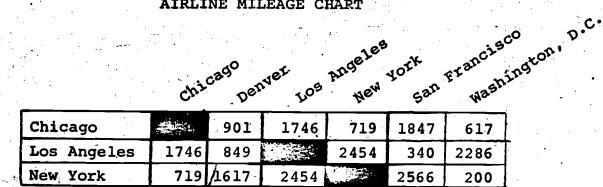


Number of super vans	1	[{
Number of wheels	20	{

- 1. Three super vans passed the corner. How many tires was that?
- Lisa counted 80 tires on the super vans at a gas station. How many vans were there?
- 3. Larry said 5 super vans were used to move a business. How many tires was that?

26BR1

AIRLINE MILEAGE CHART



How far is it between these cities:

- Chicago to Denver?
- 2. Los Angeles to New York?
- 3. New York to Washington, D.C.?



T 25BS1

Super Vans	:1	, 2	3	4	5	6	. 7
Wheels	20	40	60	80	100	ຼ 120	140

- 100 3.

T 26BR1

- 901 miles
 2454 miles
- 200 miles



23BM1

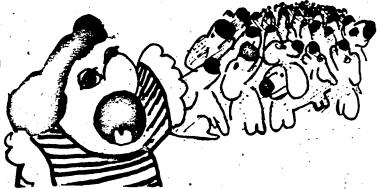


- 1. Find a small pencil and make a table.
- 2. Place the pencil on the metric ruler and record the numbers in your table.
- 3. Move the pencil and record again.
- 4. Make at least 5 entries in your table.

Eraser end		7
Point end		-

24BC1

Each dog gets tood a day.



How much canned dog food is needed?

Dogs	1	2	10	20	40	100
Cans	. 3	,				

T 23BM1

Your table will depend on the particular pencil you use.

The numbers in the top row should always differ from the numbers in the bottom row by the same amount.

T 24BC1

Dogs	1	2	10	20	40	100
Cans	15	1.	5	10	20	50



21BM1



MAKE A TABLE WITH 5 MORE ENTRIES.

Number of people	2	
Number of dollars	3	7

22BM1







MAKE A TABLE WITH 5 MORE ENTRIES.

Number of people	1		,	3
Number of bottle caps	50	•		

T 21BM1

Your table could include these entries:

Number of people	2	4	6	20	40	60	100
Number of dollars	3	6	. 9	30	60	ر. 90	150

T 22BM1

Your table could include these entries:

Number people	of	1	2	3	10	20	100
Number bottle		50	100	150	50 0	10 00	5,000



			· ·					
Yards		1	2	3	4	-5_	6	↓ 7
Feet	1	3	_6	9	12	15	18	21
Inches	12	36,	72	108	144	180	216	25 2

USE THE TABLE TO ANSWER THESE:

- 1. How many inches long is the yard stick?
- 2. A room is 12 feet wide. How many yards wide is the room?
- 3. Our medium size car is 18 feet long. How many yards long is the car?

20BM1



MAKE A TABLE WITH 5 MORE ENTRIES TO SHOW THE NUMBER OF WHEELS.

Number of bicycles	1	2	{
Number of wheels	2	4	(

T 19BR1

- 1. 36
- 2. 4
- 3. 6

T 20BM1

Your table could include these entries:

Bicycles	1	2	3	4	5	6	10	100	1000
Wheels	2	4	6	8	10	12	20	200	2000



T 31BB1.

50cm of water.

T 32BM1

Your table could include these entries:

Centimeters	5	10	15	20	50	100	1000
Grams	2	4	6	8	20	4.0	400

31BB1.



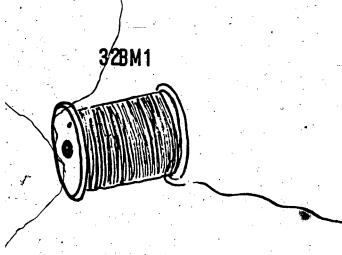
My teacher said
Il centimeters of snow
makes 1 centimeter
of water.

BUFFALO, NEW YORK HAS HAD 550 CENTIMETERS OF SHOW THIS WINTER.





How many centimeters of water would be produced from 550 centimeters of snow?



Five centimeters of this wire weight grams.

MAKE A TABLE WITH 5 MORE ENTRIES.

Centimeters	5	Z
Grams	2	Z

T 1YC1

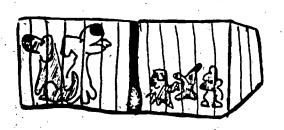
Large dogs	6	8	- 4	6	30
Small dogs	6	12	9	36	15
Pens	5 (8	5	15	20

T 2YS1

This table would help you:

A Boxes	3	6	18	30
B Boxes	2	4	12	20

- 1. 18
- 2. 20
- 3. 18 inches
- 3 A Boxes would be 36 inches high.
- If 2 B Boxes are 36 inches high, then each must be 18 inches.





How many pens are needed?

Large dogs	6	8 .	4	6	
Small dogs	6	12	9		15
Pens				15	20

2YS1

You stack up two kinds of boxes. Three of the A boxes are the same height as 2 of the B boxes.

A Boxes	3	6		3
B Boxes	2	4		

- 1. How many A boxes would be the same height as 12 B boxes?
- 2. How many B boxes would be the same height as 30 A boxes?
- 3. A boxes are 12 inches high. How high are the B boxes?

T 3YS1

.... table should help:

Turns of A	2	20	12˚	64, '	40
Turns of B	5	5 0	30	16 0	100

- 1. 50 times
- 2. 12 times
- 3. 64 times
- 4. 40 times a minute

T 4YS1

Dollars	1	2	3	4	5
Quarters	4	8	12	16	20

- 1. Put in 2 dollars to get 8 quarters.
- 2. You get 16 quarters for 4 dollars.
- 3. You need to put in 5 dollars to get 20 quarters.



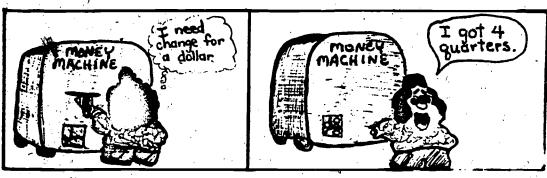


MAKE A TABLE WITH 5 MORE ENTRIES.

Turns of A	2	5
Turns of B	. 5	

- 1. When pulley A turns, 20 times, how many times does pulley B turn?
- 2. When pulley B turns 30 times, how many times does pulley A turn?
- 3. A motor turns pulley B 160 times in a minute. When this motor is connected, how many times does pulley A turn in one minute?
- 4. How fast must I turn pulley A to get pulley B to turn 100 times a minute?

4YS1



Dollars	÷ .	7	1 -		\Box
Quarters			4		

- 1. How many dollars did you put in if the machine gave you 8 quarters?
- 2. How many quarters do I get for 4 dollars?
- 3. There are 20 quarters in a roll of quarters. How many dollars would I have to put in the machine to get the number of quarters in a roll?

T-5YM1

**

Your table could include these entries:

Boxes	. 1	2	3	10	20	100
Grams :	330	· 660	990	3300	6600	33,000

T 6YB1

One student took 50 breaths in 3 minutes. For that student the table is:

Minutes	3	30	60
Breaths	50	500	1000

1000 breaths in 1 hour.

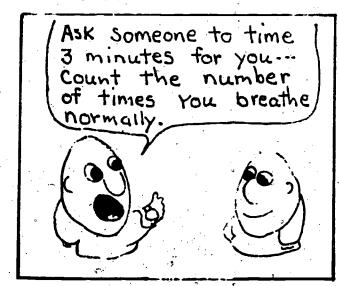


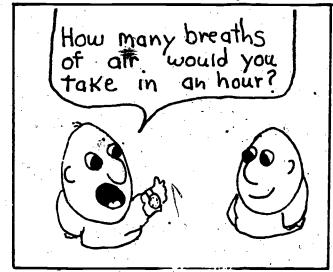


MAKE A TABLE.

Boxes	1	٤
Grams	330	

6YB1





Minutes	3		K
Breaths			て マ

T 7YC1

Dimes	5	10	15	25	50	100	150
Centimeters	9	18	27	45	90	180	270

T 8YM1

Your table could include these entries:

Dark	3	6	9	12	30	6 0	75
Light	4	8	12	16	40	80	100

Five dimes side by side are 9 centimeters long.



COMPLETE THE TABLE.

Dimes	5	10		25	50	·	150
Centinotess	9		27			180	

8YM1



MAKE A TABLE WITH 5 MORE ENTRIES.

	Dark	3	B
•	Light	4	\$

T 9YM1

Your table could include these entries:

Number of Comic Books	1	2	3	10	100	1000
Profit	2¢	4¢	6¢	20¢	\$2	\$20

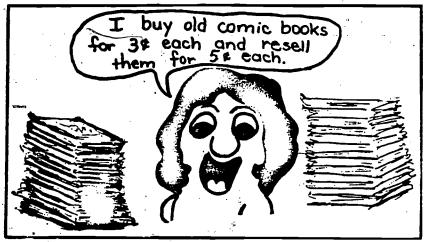
T 10YM1

Your table could include these entries:

Players	5	10	15	20	25	30
Basketballs	-2	. 4	6	8	10	12

9 YM1

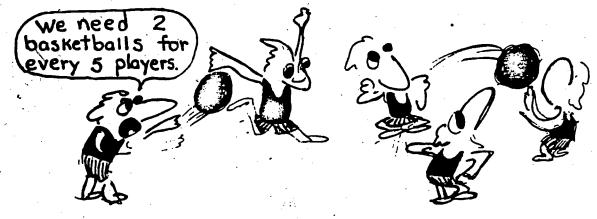




MAKE A TABLE WITH 5 MORE ENTRIES TO SHOW HOW MUCH YOU CAN EARN.

Comics		Z
Profit		

10YM1



MAKE A TABLE WITH 5 MORE ENTRIES.

Players	5	•	3
Basketballs	2		乙

T 11YR1

Number of dark pieces	2	4	. 6	8	10	20	40
Number of light pieces	3	6	9	12	15	30	60

- 1. You need 12 light pieces for 8 dark pieces.
- 2. You need 40 dark pieces for 60 light pieces.
- 3. You need 30 dark pieces for 40 light pieces.

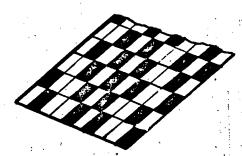
T 12YM1

Your table could include these entries:

_			•					7
•	Number of Blocks	7	14	21	3.5	10.5	" 1 7.5	1
	Number of Minutes	2	4	6	1	3	5 ·	.29

11YR1

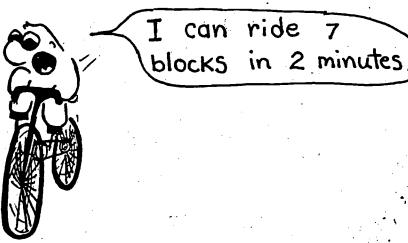
To make this design, you need 2 dark pieces for every 3 light pieces.



Number of Dark Pieces	2	4	6	8	Į0	20	40
Number of Light Pieces	3	6	9	12	15	30	60

- 1. How many light pieces are needed for 8 dark pieces?
- 2. How many dark pieces for 60 light pieces?
- 3. How many dark pieces for 45_light pieces?

12 YM1



MAKE A TABLE WITH 5 MORE ENTRIES.

Number of blocks	7	,	\Box
Number of minutes	2		5

T 13YS1

This table helps:

Eggs	12	1	2	9	10	11	100	327
Cost	84¢	7¢	14¢	63¢	70¢	77¢	\$7	\$22.89

- 1. 14¢
- 2. 63¢
- 3. 77¢
- 4. \$22.89

T 14YM1

Your table might have these entries:

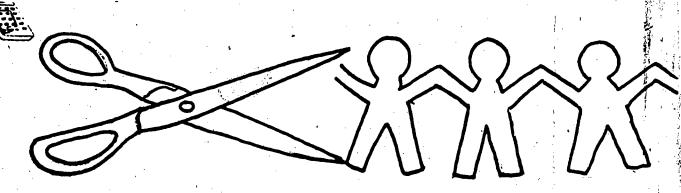
Minutes	5	10	15	20	25	30
Dolls	36	. 72	108	144	180	216





- 1. How much did the two eggs cost?
- 2. The Fox family ate 9 eggs this morning. How much did those eggs cost?
- 3. The Smith family ate 11 eggs. How much did those eggs cost?
- 4. A restaurant used 327 eggs one morning. How much did the eggs cost?

14YM1



I can cut out 36 dolls in 5 minutes.

MAKE A TABLE WITH 5 MORE ENTRIES.

Minutes	5		了
Dolls	36		Z

T 15YS1

This table would help:

Cokes	1	2	3	4	20	24	240
Seconds	5	10	15	20	100	120	1200

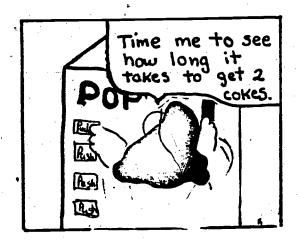
1 coke takes 5 seconds.

240 cokes take 1200 seconds. That is the same as 20 minutes.

T 16YB1

Country western	3	6	12	15	21
Records	4	8	. 16	20	28

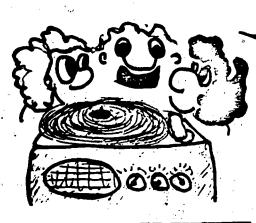
I have 21 country western records.





- 1. How long for 1 coke?
- 2. If we got one for everyone in our room, how long would it take?
- 3. The coke man told me he puts 240 cans in there. How long would it take us to empty it?

16YB1



Three out of 4 of my records are country-western records!

Country-Western	3	_ <
Records	4	

I have 28 records. How many of my records are country-western?

T 17YC1

Your answers to the questions will depend on the data you collected.



Pennies	10	20	40	50	300	200
Cm	19	38	76	95	190	380





GET SOME PAPER CLIPS. ASK SOMEONE TO TIME YOU BUILD A CHAIN OF 10 CLIPS. COLLECT YOUR DATA AND COMPLETE TABLE.

Clips	10	20	25	30
Seconds	٠ (بـــــــــ)			

USE YOUR TABLE.

- 1. How long would it take you to build a chain of 40 clips?
- 2. What would be the time to chain a whole box of 500 paper clips?
- 3. You linked paper clips together for 3 minutes. About how long is your chain?

.18YC1

Ten pennies laid, side-by-side are 19 centimeters long.

COMPLETE THE TABLE.

Pennies	10	20		50		200
Centimeters	19	·	76		190	

T 19YC1

There is 2¢ profit on each comic book.

Comics	2	10	100	25	250	50	
Profit	4¢	20¢	\$2	50¢	\$5	. \$1	

T 20YR1

- 1. 5 yards.
- 2. 9 feet.
- 3. 24 inches.

19YC1

Here's a way to earn money... I buy old comics for 34 each and resell them for 54 each.



COMPLETE THE TABLE.

Comics	. 2	10	°100		•	
Profit			A.	50¢	\$5	\$1

20YR1

Yards		1	2	3	4	5	6	7
Feet	1	3	6	9	12	15	18	21
Inches	12	36	72	108	144	180	216	252

- 1. Joe's living room is 180 inches wide. How wide is the living room in yards?
- 2. A TV set is placed so that it is 108 inches from the chair How many feet is it from the chair to the TV?
- 3. Jim purchased 2 feet of ribbon for art class. How many inches did he purchase?

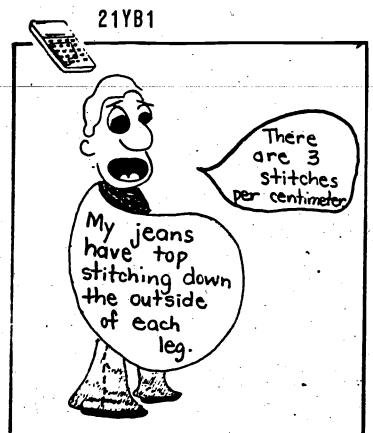
T 21YB1

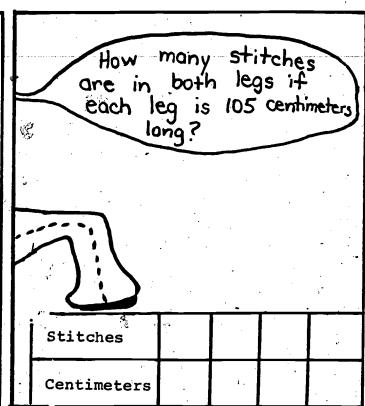
Stitches	3	15	300	_315
Centimeters	1	5	100	105

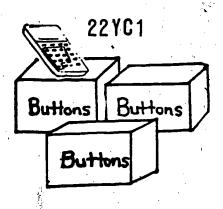
Each leg has 315 stitches. Both legs have 630 stitches.

T 22YC1

Shirts	10,000	15,250	12,243	9,999
Buttons	110,,000	1 67,750	134,673	.109-,989







The Neato Shirt Company buys tons of buttons. For the Exec Model, they use 11 buttons on each shirt. COMPLETE THE TABLE TO SHOW THE BUTTONS NEEDED.

Shirts	10,000	15,250	12,243	9,999
Buttons			٧	

T 23YC1

Cans	1	2	. 5	15	. 12	45
Cost	29¢	58¢	\$1.45	\$4.35	\$3.48	\$13.05

T 24YS1

Hours	1	10	20
Pay	\$5.28	\$52.80	; \$105.60

- 1. \$168.96.
- 2. \$211.20.
- 3. 38 hours.





COMPLETE THE TABLE.

Cans	1	2	. 5	15		
Cost	29¢	58¢			\$3.48	\$13 . 05



Mr. Taylor is a cutter for the Neato Shirt Company. He is paid \$5.28 per hour.

COMPLETE THE TABLE TO HELP MR. TAYLOR FIGURE HIS PAY.

Hours	1		3
	AE 00		<
Pay	\$5.28		

- 1. One week Mr. Taylor worked 32 hours. What was his pay?
- 2. Another week Mr. Taylor worked 40 hours. What was his pay?
- 3. One week Mr. Taylor was paid \$200.64. How many hours did he work?

T 25YM1

Your table could include these entries:

Liters .	11	2_	3	10	20	30
Kilometers	13	26	39	130	260	390

T 26YR1

- 1. 1847 miles.
- 2. 1857 miles

San Francisco to Denver is 956 miles.

Denver to Chicago is 901 miles.

956 + 901 = 1857

3. 10 miles farther.





MAKE A TABLE WITH 5 MORE ENTRIES.

. 1				*		, -
	**				. St.	/:
	Liters		1		4	2
	Kilomet e	5	1,5	4 -	1	2
	'YTTOME CE	18	.13			۷,

26YR1

San Francisco AIRLINE MILEAGE CHART Washington, ARGE! Chicago Denver Hew Chicago 901 1756 7:<u>1</u>9 1847 612 Denver. 9.01 **R** . . 849 1617 956 1488 San Francisco 1847. 340 956 2566 2417

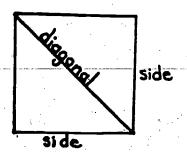
- 1. How, far is it from San Francisco to Chicago?
- 2. Use the mileage chart to find the distance from San Francisco to Chicago if you stop in Denver.
- 3. How much farther is it to fly from San Francisco with a stop in Denver?

T 27YR1

- 2.83cm 1. 2.
- 5.66m
- 3. 5mm

T 28YR1

- 42 swings
- 100cm (or 1 meter)
- 1800 (30 x 60)



Length of side	2	3	4	5	Ŝ
Length of diagonal	2.83	4.24	5.66	7.07	3

- 1. How long is the diagonal of a square when its side is 2 cm long?
- 2. How long is the diagonal of a square when its side is 4 meters long?
- 3. How long is the side of a square when its diagonal is 7.07 mm?

28YR1

The number of times a pendulum swings per minute depends on its length.

Swings per minute	60.	42	30
Length in centimeters	25	50	100

USE THE TABLE TO ANSWER:

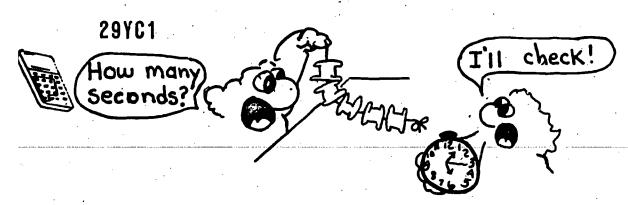
- 1. How many swings would a 50 centimeter pendulum make in 1 minute?
- 2. How long is a pendulum that makes 30 swings a minute?
- 3. How many times would you expect a 100 centimeter pendulum to swing in 1 hour?

T 29YC1

Your answers will depend on the time it took you to build the 5-spool snake.

T 30YR1

- 1. 1 quart.
- 2. 8 quarts.



Find how long it takes you to put 5 spools on a piece of string. Use the time it took to make a 5-spool snake to estimate how long you would take to make the longer snakes. Do not build the longer snakes.

Number of spools	5	10	15	30	100
Time					

30YR1



4	Gallons	,	-	1	2	3	4	5
1	Quarts		1	4	8	12	16	20
	Pints	1	2	8	16	24	32	40
	Cups	2	4	16	32	48	64	80

USE THE TABLE TO ANSWER THESE QUESTIONS:

- 1. If you drink 4 cups of milk, how many quarts do you drink?
- 2. For a party you order 2 gallons of ice cream. How many quarts did you order?

T 31YM1

Your table could include these entries:

Dark	3	6	9	12	30	33	300 {
Light	5	10	15	20	50	55	500 {

T 32YM1

Your table could include these entries:

Revolutions of big wheel	3	6	9	1	.375	37.5
Revolutions of little wheel	8	16	24	2.67	1	100



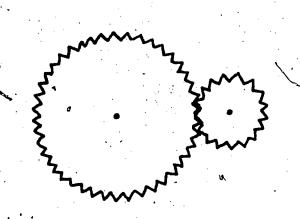
MAKE A TABLE WITH 5 MORE ENTRIES.

Dark	3		5
Light	5	•	5

.32YM1



Every time the big wheel turns 3 revolutions, the little one turns 8 revolutions.



MAKE A TABLE WITH 5 MORE ENTRIES.

Revolutions on / big wheel	3	. —	S
Revolutions on little wheel	8	·	\Box

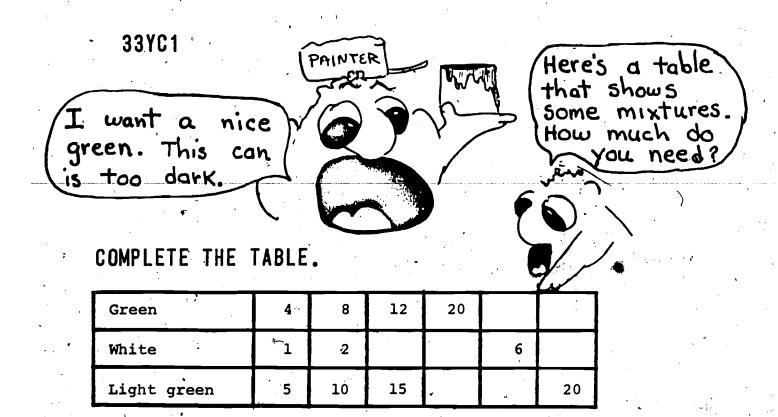
T 33YC1

Green	₹ 4	8	12	20	24	. 16
White	1	2	. 3	5	6	• 4
Light green	-5 1	10	15	25	30	20

T 34YC1

Cubic centimeters	60	120	180	.300	600	3000
Heartbeats	1	2	3	5	10	50

- 1. 120 cubic centimeters of blood in 2 heartbeats.
- 2. 600 cubic centimeters of blood in 10 heartbeats.
- 3. 3000 cubic centimeters of blood in 50 heartbeats.

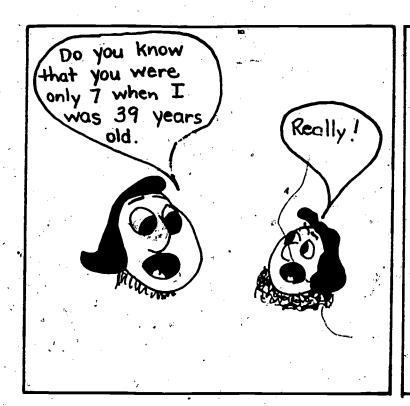


34YC1

Do you ever wonder how much blood your heart pumps? Normally, about 60 cubic centimeters of blood are pumped per heart beat.

Cubic Centimeters	60	3
Heart Beats		* \

- 1. How many cubic centimeters of blood are pumped in two beats of a normal heart?
- 2. How many cubic centimeters of blood are pumped in 10 beats?
- 3. How many cubic centimeters of blood are pumped in 50 beats?





2WB1



Saturday...

I made 20 baskets today. Each day I am going to make 10 more baskets than the day before.



Days	Sat.	Sun.	Mon.	·	$\overline{}$
Baskets	20		•	:	



T 1WB1

Daughter	. 7	10	15	16
Mother	39	42	47	48

Then I'm 16 my mother is 48 and 16 is $\frac{1}{3}$ of 48.

T .2WB1

<u></u>		<u> </u>		_				
Days **	Sat.	Sun.	Mon.	Tues.	Wed.	{	Sat.	Sun.
Baskets	- 20	30	40	50	60	}; }; }	90~	106

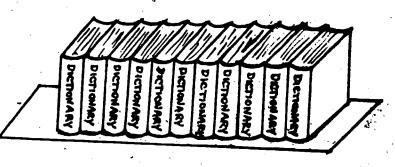
On Sunday he will make 200 baskets



- Pounds Z
- 1. How many pounds of dog food would you need for 5 days?
- 2. A 100 pound bag of dog food would last how many days?



Each dictionary has 764 pages.



MAKE A TABLE WITH 5 MORE ENTRIES.

Number of dictionaries	1	3
Number of pages	764	5

T 3WS1

Pounds	4	8	12	16	20	100
Days	1	2	٠3	4	5	- 25

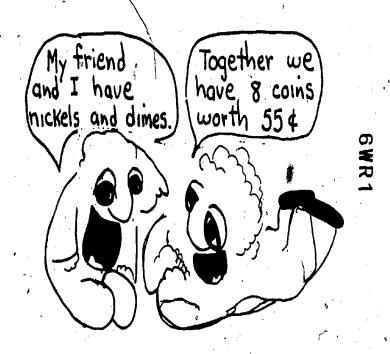
1. You need 20 pounds for 5 days.

..... 100 pound bag will last 25 days.

T 4WM1

or table could include these entries

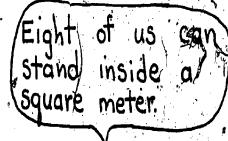
uctionaries	1	2	3	4	5	. 6
1-1c-rs	764	1528	2292	3056	3820	4584



Nickels	1	2	3	4	5
Cents	5 [×]	10	* 15	20	25

Dimes	1	2	3	94	5
Cents	1,0	20	30	40	50

How many of our 8 coins are nickels?





Number of students	8		7
Number of square meters	1	a ·	3

- 1. How many students could stand inside an area of 2 square meters?
- 2. How many students would fill an area of 10 square meters?
- 3. How many students could you expect to squeeze into an empty 60 square meter class-room?

73

74

T 5WS1
This table would help: **

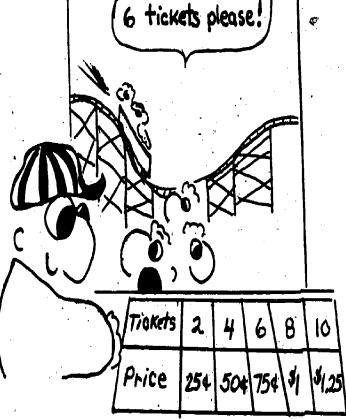
Number of students	8	16	80	480
Number of square meters	1	2	10	60

- 1. 16 students
- 2. 80 students
- 3. 480 students

T 6WR1

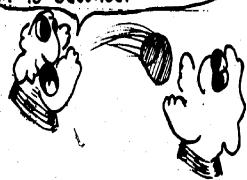
- 5 nickles
- 5 mickles are worth 25¢.
- 3 dimes are worth 30¢.

This makes 8 coins and 55¢ altogether.



- 1. How many rides for 75¢?
- 2. How much for 12 tickets?
- 3. How many tickets can you buy for \$4.25?

we can toss the basketball back and forth 3 times in 10 seconds.



Number of tosses	_
Number of seconds	7

At that rate how many times can we toss it back and forth in:

- 1. 30 seconds?
- 2. 1 minute?
- 3. 1½ minute?

How long would it take us to toss it back and forth:

- 4. 12 times?
- 5. 24 times?
- 6. 36 time's?



T 7WS1

This table should help:

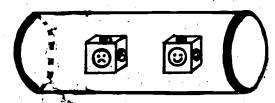
Number of tosses	3	9	18	27	12	24	36
Number of seconds	10	* 30	· [#] 60	90	40	80	120

- 1. 9 tosses
- 2. 18 tosses
- 3. 27 tosses
- 4. 40 seconds
- 5. 80 seconds (That is 1 minute and 20 seconds)
- 6. 120 seconds (That is 2 minutes)

T 8WR1

- 1. 6 rides
 - \$1.50
- . 34 tickets

USE THE TABLE TO PLAY THE CUBE-TUBE GAME.



Cubes		2	3	4	5	6
Corners	8	16	.24	32	40	48
Faces	6	12	18	24	30	36
Edges	12	24	36	48	60	72

FIND HOW MANY CUBES ARE IN THE TUBE FROM THESE CLUES.

- Game 1. There are between 40 and 50 edges in the tube.
- Game 2. There are 10 more corners than faces.
- Game 3. There are 4 more edges than corners.
- Game 4. The number of corners plus the number of faces is 42.

10WC1



I counted 90 names in one column in the phone book---

There are 3 columns on each page.

COMPLETE THE TABLE.

Columns	4	2		5		15
Names	90		270		900	

- 1. The telephone book has 114 pages. Estimate how many names are listed.
- 2. The name "Smith" fills 6 columns. Estimate how many Smiths are listed.



T 9WR1

Game 1. 4 cubes.

Game 2. 5 cubes.

Came 3. 1 cube.

Game 4. 3 cubes.

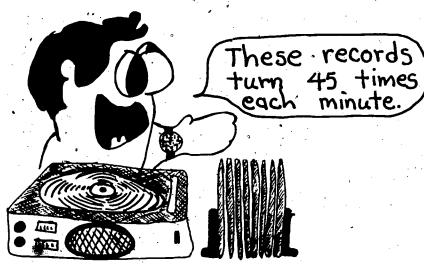
T 10WC1

Columns	1	2	3	. 5	10	15
Names	90	180	270	450	900	1350

- 1. There are about 30,780 names in a 114-page telephone book.
- . There are about 540 "Smiths" listed.

11WC1





FIND OUT HOW LONG THESE RECORDS PLAY.

Revolutions	45	90	180	67岁	120	142첫
Minutes :	1	2				· · · · · · · · · · · · · · · · · · ·

12WS1

Number	1	2	
Postcards	11¢	22¢	
Letters,	13¢	26¢	a.

It costs 134 to mail a letter and 114 for a postcard



- 1. How much does it cost to mail 3 letters and 2 postcards?
- 2. How much does it cost to mail 6 letters and 6 postcards?
- 3. I spent \$1.22 and I wrote to 10 people. How many postcards and how many letters did I write?

T 11WC1

Revolutions	45	90	180	67¥	 120	1425
Minutes	1	2	4	1.5	2.67	3.17

T 12WS1

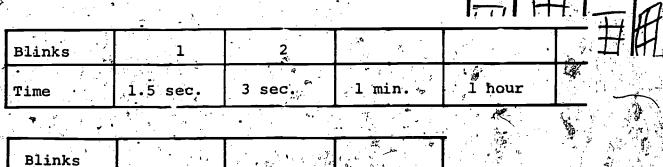
Number	1	2	3	4	5	6	7
Postcards	11¢	22¢	33¢	44¢	55¢	66¢	77¢
Letters	13¢	26¢	ु.(39¢	52¢	65¢	78¢	· 91¢

- 1. It costs 61¢ to mail 3 letters and 2 postcards.
- 2. It costs \$1.44 to mail 6 letters and 6 postcards.
- 3. I wrote 4 postcards and 6 letters.



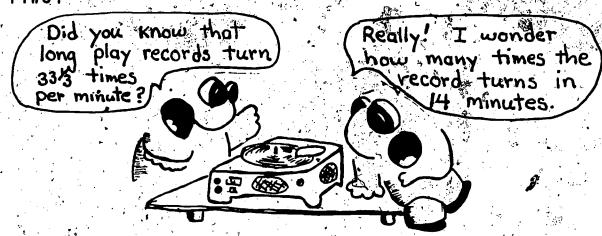
A light on a tall building blinks every 1.5 seconds.

COMPLETE THE TABLE.



:	Blinks			
	Time	l day	l week	l year

1.4 WC 1



COMPETE THE TABLE TO FIND OUT.

T	urns	$33\frac{1}{3}$	$66\frac{2}{3}$	100				
М	inu t es	.1	2	3	4	6	10	14

If you used 365 days for 1 year, you would get 10,512,000 blinks.

Blinks	1	2	20	1200
Time	1.5 sec.	3 sec.	1 min.	l hr.

Blinks	28,800	201,600	10,483,200
Time	l day	l week	l year

T 14WC1

	Turns	$33\frac{1}{3}$	66 2	100	$133\frac{1}{3}$	200	3335	$466\frac{2}{3}$
,	Minutes	1	2	3	4	6	10	14 .

15**V**R1







- <u> </u>						<u> </u>
Number	1	. 2	3	4	5	6
Weight of nickels in grams	5.	10	15 \	20	25	30
Weight of to guarters in grams	6	12	18	24	30	36

USE THE TABLE TO ANSWER THESE:

- 1. What is the weight of one dollar in nickels?
- 2. What is the weight of one dollar in quarters?
- 3. What is the weight of 3 coins whose value is 35¢?
- 4. What is the value of 7 coins that weigh 38 grams?



The Neato Shirt Company makes a sport shirt which has six buttons.

Number of shirts	1	
Number of buttons		3

How many buttons are needed when the production is:

- 1. 850 shirts?
- .2. 8,500 shirts?
- 3. 8,050 shirts?

How many shirts can be made using:

- 4. 4,548 buttons?
- 5. 7,404 buttons?

T_15WR1

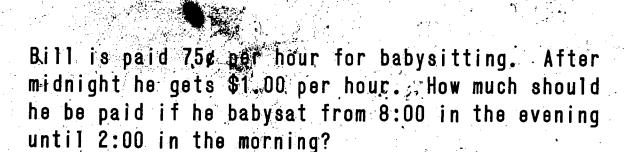
- 1. 20 nickels weigh 100 grams
- 4 quarters weigh 24 grams.
- 3. 1 quarter and 2 nickels weigh 16 grams in all.

T 16WS1

This table would help:

Shirts	1	100-	1000 50	\$00 00d
Buttons ,	. 6	600	6000	3000 1300 00

- 1. 5100 buttons.
- 2. 51,000 buttons.
- 3. 48,300 Wuttons.
- 4. 758 shirts.
- 5. 1234 shirts.



Hours before # midnight	1		T _Q
Pay°	.75		7
· ·			
Hours after	1		
- Pay	1.00	1	7



18WS1

A field goal in basketball counts 2 points. A free throw counts 1 point.

CUMPLE INE	· I ARL	L.			
Field goals	18	26	26	17	22
Free throws	14	9	18	20	26
Points	50		•		

- 1. The Wildcats made 10 field goals and 8 free throws in the first half of the game. They made 7 field goals and 12 free throws in the second half. How many points did they score in the game?
- 2. The Cougars scored 70 points. They made 26 field goals. How many free throws did they make?



T 17WB1

\$5.00

Hours before midnight	1	2	3	4	
Pay	. 7 5	1.50	.2.25	3.00	

Hours after midnight	1	2	
Pay	1.00	2.00	.1

Bill worked 4 hours before midnight and 2 hours after.

T 18WS1

Field goals	18	26	26	17	20.5
Free throws	14	9	18	20	26
Points	50	61	70	54	70

- 1. 54 points.
- 2. 18 free throws.



COMPLETE	THE T	TABLE.		
 Number of dribbles	15			
 Number of seconds	10	30	40	09

Now many times can he drib the basketball in: 1. 1 minute?

How long does it take to dribble the ball:
4. 3 times?
5. 6 times?
6. 9 times?

20WR1

					<u> </u>	_*	· .	5.4
Number		ı	1	. 2	3	4	5	6
Weight in gram		ckels	5	10	15	2 0	, 25	30
Weight quarter	*	grams	6	12	18	24	30	36

USE THE TABLE TO ANSWER THESE:

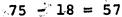
- 1. Which is worth more: 60 grams in nickels or 60 grams in quarters?
- 2. How many quarters would it take to balance the weight of 10 nickels?
- 3. How much more does 75 cents worth of nickels weigh than 75 cents worth of quarters?

Number of Dribbles	15	45	60	90	135	3	6	9
Number of Seconds	10	30	40	60	90	. 2	4	6

- 1. 90 dribbles
- 2. 135 dribbles
- 3. 60 dribbles -
- 4. 2 seconds
- 5. 4 seconds
- 6. 6 seconds

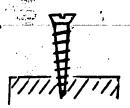
T 20WR1

- 1. Quarters
- 60 grams is the weight of 10 quarters. They are worth \$2.50.
- 60 grams is the weight of 12 nickels. They are worth 60¢.
- 24 Approx. 8
- 10 hickels weight 50 grams.
- 8 quarters weigh 48 grams.
- 3. 57 grams
- 75¢ is 15 nickels. They weigh 75g. 75¢ is 3 quarters. They weigh 18g.



21WS1

This screw moves into the wood 1 centimeter for each 5 turns of the screw.



COMPLETE THE TABLE.

Turns	5	10	20	35	50	60
Distance	1	4				

- 1. I need to put the screw into 3 centimeters of wood. How many times do I have to turn the screw?
- 2. A screw that is 4 centimeters long must be turned into a wooden block. How many times must I turn the screw?
- 3. I turned a screw 25 turns to put it in the wood. How long is the screw?

22WR1

Weight of Common Solids in Grams

Volume in cubic centimeters	. 1	2	3	4	5	10
Water	. 1.	2		4.	5	10
Iron	7.9	15.8	23.7	31.6	39.5	79
Gold	19.3	38.6	5 🗱 9	72.2	96.5	193

- 1. What is the weight of 1 cubic centimeter of iron?
- 2. What is the weight of 6 cubic centimeters of water?
- 3. A block of gold weighs 60 grams. Estimate the volume of the block in cubic centimeters.

T 21 WS1

Turns	5	10	20	35	50	60
Distance	1	2	4	7	10	12

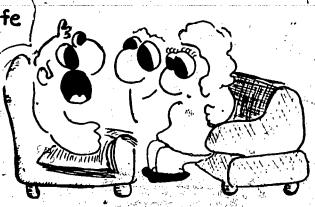
- 1. 15 turns
- 2. 20 turns
- 3. 5 cm

T 22WR1

- 1. /7.9 grams.
- 2. 6 grams.
- 3. A little more than 3 cubic centimeters.



At your age \$1000 worth of life insurance costs \$6.50 a month.



How much will these amounts of life insurance cost?

Amount of insurance	\$1000	\$2000	\$10,000	\$15,000	\$25,000
Monthly cost	\$6. 50			ونظور	

24WB1



Ferris wheel takes a group of 24 people every 5 minutes. How long will you have to wait in line if there are 85 people in front of you?

T 23WC1

Amount of insufance	\$1000	\$2000	\$10.000	\$15,000	\$25.000 💖
Monthly cost	\$ 6.50	\$13.00	\$65.00	\$97.50	\$162.50

T 24WB1

This table should help:

Number of people ahead of you	_a 0-23	24-47	48-71	72 - 95
Number of minutes you must wait	0.	. 5	10	15

You must wait at least 15 minutes



The average growth of the diameter of a red wood tree is 5 millimeters a year. How thick would a tree be that is 100 years old?



← Diameter →





MAKE A TABLE TO SHOW THE PRACTICE TIME.

<u> </u>	·				<u> </u>
Number of weeks.	1	2°	. 3.	5 0	100
Hours of practice	***	199	*	200	

- PRACTICE TIME

 Mon Tues to hour

 wed coch day

 Thur

 Fri

 Sat 12 hour
- 1. Bill has followed the practice schedule for a year (52 weeks). How many hours has he practiced?
- 2. Barb has followed the practice schedule for five years.
 How many hours has she practiced?
- 3. Brad claims he followed the practice schedule and practiced 48 hours to get ready for his recital. How many weeks did he take?

T 25WB1

This table should help:

Age in Years	1	2	3	10/	100
Diameter in millimeters		10	15	, 50	500

The 100 year old tree is 500 millimeters across. That is 50 centimeters or half a meter.

T 26WS1

	Number of weeks '	1	2	3	50	100
1	Hours of practice	4	8) 12	,200	400

- 1. ~ 208 hours @
- 2. 10°40 hours
- 3. 12 weeks

WIND CHILL TABLE

At 8:00 the thermometer reads +10° and the wind is blowing 15 m.p.h.

WIND CHILD TABLE /							ė.		
Readings	When below	When the wind blows at the m.p.h. below, it reduces temperature to:							
1	Calm	5	10	15	20	25	_30	35	40
-+20	20	16	4	-5	-10	-15	-18	-20	
+10	10	0	-9	-18	-25	-29	-33	-35.	-37
-0	0 .	- 5	-21	-36	−39₺	-44	-48	÷49	-53
-10	-10	-15	-33	-4 5	∸ 53	-59	-63	-67	-6 9
-20	-20	-25	-46	∸ 5 8	-67	-74	-79	-82	-85

- 1. What is the wind chill temperature?
- 2. By 10:00 the wind increases to 20 m.p.h. How much does the wind chill temperature drop?
- 3. By 11:00 the wind decreases to 10 m.p.h. How much does the wind chill temperature increase?





T 27WR1

- 1. -18
- 2. 7° drop (the wind chill temperature is -25°)
- 3. 16° rise (the wind chill temperature is -9°)

T 28WB1

Each carton of 12 calculators costs \$168.

 $12 \times 14 = 168$

Cartons	1	10	5
Cost	168	1680	840

\$840 will buy 5 cartons of calculators.

Gallons	-		. 1	2	3	4	5
Quarts		1	4	8	12	,16	20
Pints	. 1	2	/ 8	16	24	32	40
Cups	2	4	16	32	48	64	80

- For a punch recipe you mix 5 quarts of fruit juice with 7 quarts of ginger ale. How many gallons of punch do you make?
- To paint a house you need 15 gallons of paint. You already have 8 quarts. How many more gallons do you need to buy?

Table of Square Roots

	N ·	· VN	N	111	N	· VN	N	√N
	1	1.00	6	2.45	11	3.32	16	4.00
	2	1.41	7	2.65	12	3.46	17	4.12
\mathbb{L}	3	1.73	8	2.83	13	3.61	18	4.24
	4	2.00	9	3.00	14	3.74	19	4.36
$\cdot \mathbb{L}$	5	2.24	10	3.16	15	3.87	20	4.47

The square root of 8 is 2.83. USE THE TABLE TO FIND THESE SQUARE ROOTS:

10

20

16

5

-T 29WR1

- 1.__3 gallons (12 quarts).
 - 2. 13) gallons (you already have 2 gallons).

T 30WR1

$$1. \sqrt{10} = 3.16$$

$$\sqrt{14} = 3.74$$

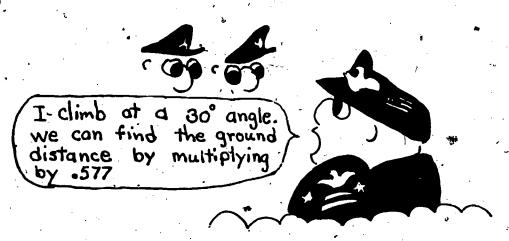
$$19 = 3$$

1.
$$\sqrt{20} = 4.47$$

$$\sqrt{16} = 4$$

$$\sqrt{5} = 2.24$$





FIND THE ALTITUDES FOR THESE GROUND DISTANCES.

Ground distance	700 meters	100 meters	200 meters	350 meters	650 meters
Altitude	403.9 m	57.7 m			

32WS1

When you ride a Ferris wheel that's 40 feet high, you travel 125 feet in a circle for each revolution of the wheel.

Distance	125			
Revolutions	1	8	ر.	

- 1. How many feet do you travel around in 8 revolutions of the Ferris wheel?
- 2. About how many revolutions would you have to take before you traveled 5,000 feet?
- 3. If a 35¢ ticket allows you to ride the Ferris wheel for 8 revolutions, how much would you have to pay to travel a total of 10,000 feet?

T 31WC1

Ground distance	700m	100m	200m	350m	650m
Altitude	403.9m	57.7m	115.4m	202m	375m

T 32WS1 This table would help you:

Distance	125	1000	5000	10,000
Revolutions	1	8	40	8

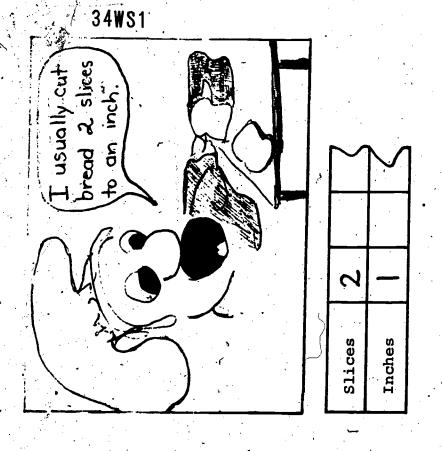
- 1. 100 feet
- 2. 40 revolutions
- 3. \$3.50

Revolutions	8	80
Cost	35¢	350¢

In the game of Sergeant-Major, the scores of some players are UP and others are DOWN. As many points are UP as DOWN. The DOWN scores are circled. COMPLETE THE TABLE.

Lynn	5 🐇	- 2	3
Kim (2) 2 (3)		, 3	
Carol (1) (1) 4	6		(3)

- 1. What is Lynn's total score?
- 2. What is Kim's total score?
- 3. What is Carol's total score?



1. loaf?

2. How many slices of bread in a 12-inch loaf?

3. The longest loaf of bread ever baked was 90 feet in length. How many slices of bread are in a 90-foot

T 33WS1

Lynn	3	1	(5	2	3
,Kim	2	2	3	1	·	0
Carol	θ	θ	4	©	6	3

- 1. Lynn's total is 11.
- 2. Kim's total is 1.
- 3. Carol's total is (12).

T 34WS1

Slices	2	4	6.	8	10	20
Inches -	1	2	3	4	, 5	10

Weight of Common Solids in Grams

Volume in cubic centimeters	1 '	2 .	3-	4	5	10
Pine Wood	.5	1	1.5	2	2.5	5
Water	. 1	2	3	4	5	10
Iron	7.9	15.8	23.7	31.6	39.5	79
Lead	11.3	22.6	33.9	45.2	56.5	113

- 1. Which weighs more, 10 cubic centimeters of iron or 10 cubic centimeters of lead?
- 2. Which weighs more, 5 cubic centimeters of lead or 10 cubic centimeters of iron?
- 3. How many cubic centimeters of wood weighs the same as 10 cubic centimeters of water?

36WR1

A 727 jet takes off at a 30° angle of climb.

Altitude

This table shows the altitude and the ground distance from the take off point.

Altitude	57.7 m	115.4 m	173.1 m	230.8 m	346.2 m
Ground distance	100 m	200 m	300 m	400 m	600 m

That is the altitude when the plane has traveled the ground distances:

- 1. 300 meters?
- 2. 600 meters?
- 3. 800 meters?

Fround distance

T 35WR1

Lead. 10 cubic centimeters of iron weigh 70 grams.
 10 cubic centimeters of lead weigh 113 grams.

Iron. '5 cubic centimeters of lead weigh 56.5g.
 cubic centimeters of iron weigh 70g.

20. 10 cubic centimeters of water weigh 10g.
 20 cubic centimeters of pine wood weigh 10g.

T 36WR1

- 1. 173.1 meters.
- 2. 346.2 meters.
- 3. 461.6 meters.

T 1RM1

Your table could include these entries:

Bags	1	2	3	4	10	100	1000
Cost	18¢	36¢	54¢	72¢	\$1.80	\$18	\$180
Income	25¢	, 50¢	75¢	\$1.00	\$2.50	\$25	\$250
Profit	7¢	14¢	21¢	28¢	70¢	\$ 7	\$ 70

T 2RB1

Miles	11/2	3	9	45
Hours	1	2	6	30

He can paint 45 miles of dotted lines in 30 hours.



We can buy popcorn at 184 a bag and sell it for 254 a bag:



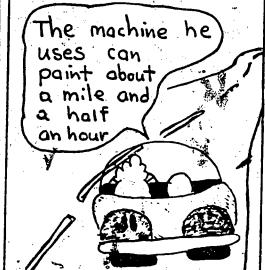
MAKE A TABLE WITH 5 MORE ENTRIES.

Bags	1	\
•		. 5
Cost	18¢	ز
Income	25¢	ر ا
Profit	7¢	



My dad works (
hours a day
painting these
center dotted
lines on
highways





How many miles can be paint in a 5-day week (30 hrs.)?

T 3RR1

Game 1. 4 cubes

Game 2. 3 cubes

Game 3. 10 cubes

Game 4, 2 cubes

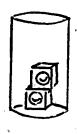
T 4RR1

- 1. 4°
- 2. -45°
- 3. -5°
- 4 -59

⇒ 3RR1

USE THE TABLE TO PLAY THE CUBE-TUBE GAME.

Number of cubes	1	· 2	- 3	4	5	6
Number of corners	8	16	24	32	40	48
Number of faces	6	12	18	24	30	36
Number of edges	12	24	36	48	60.	72



SOME CUBES ARE IN A TUBE. FIND HOW MANY CUBES ARE IN THE TUBE FROM THESE CLUES.

- Game 1. There are between 30 and 40 corners in the tube.
- Game 2. There are between 10 and 40 corners, between 10 and 20 faces, and between 30 and 50 edges.
- Game 3. There are 60 faces in the tube.
- Game 4. There are more than 10 faces and less than 30 edges in the tube.

4RR1

WIND CHILL TABLE

	,								
Readings	When below	When the wind blows at the m.p.h. below, it reduces temperature to:							
1	Calm	5	10	15	20	25	30	35	40
+20	20	16	4	-5	-10	-15	-18	-20	-21
+10	. 10	0	-9	-18	-25	-29	-33	-35	-37
0	0	-5	-21	-36	_39	-44	-48	-49	- 53
-10	-10	-15	-33	-45	-53	-59	-63	-67	-69

The wind chill temperature is -25° when it's +10° and the wind is blowing 20 miles per hour.

FIND THESE WIND CHILL TEMPERATURES.

- 1. \ Temperature is $+20^{\circ}$ with a wind of 10 miles per hour.
- 2. Temperature is -10° with a wind of 15 miles per hour.
- 3. Temperature is 0° with a wind of 5 miles per hour.
- 4. Temperature is -10° with a wind of 25 miles per hour.

T 5RS1

This table should help.

Miles per hour	15	30	45	60
Feet per second	22	44	66	88

No. of sec.	1	2	5	13.6
No. of ft.	22	44	110	300

- 1. 110 feet
- 2. 13.6 seconds
- 3. 1 second
- 4. 60 mph.

T 6RB1

<u> </u>			
Miles	60	120	240
Gallons	1	2	4
L			

It will take 4 gallons of gas.

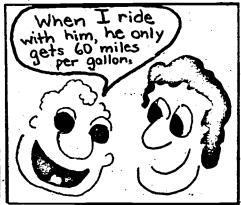


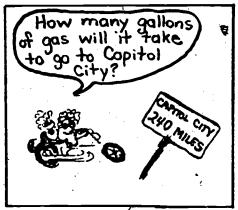
At 15 miles an hour, a car travels 22 feet in one second.

- 1. How many feet does a car going 15 miles an hour travel in 5 seconds?
- 2. How long does it take a car going 15 miles an hour to travel 300 feet?
- 3. How long does it take a car going 30 miles an hour to travel 44 feet?
- 4. If a car travels 88 feet in one second, how fast is the car traveling in miles per hour?

6RB1







Miles		_{
Gallons		3

T 7RB1

Words	340	3400	3740	4080
Minutes	1	10	11	12

It will take about 12 minutes.

T 8RB1

MEDIUM--35 minutes per pound.

TABLE FOR MEDIUM

Time	35	70	105	,210	245
Pounds	'1	2	3	6	7

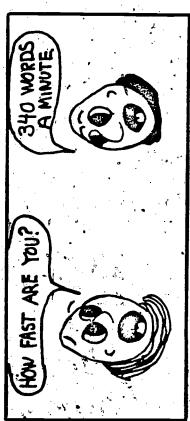
245 minutes = 4 hours and 5 minutes.

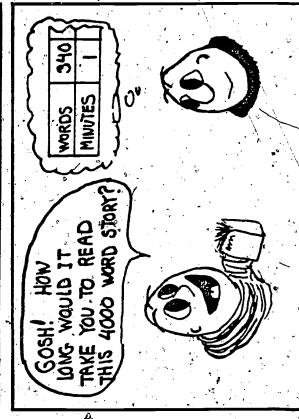
Start the roast at 2:55 to eat at 7:00.

Start the roast 70 minutes later for RARE. Start at 4:05 for RARE.

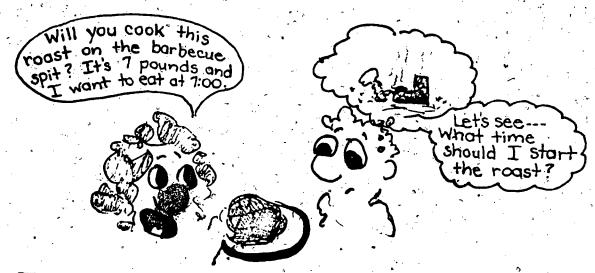
Start the roast 35 minutes earlier for WELL DONE. Start at 2:20 for WELL DONE.







8RB1



Timetable for	spit-barbecued	beef roast
Rare	Medium	Well
25 minutes per pound	35 minutes per pound	40 minutes per pound

ERIC

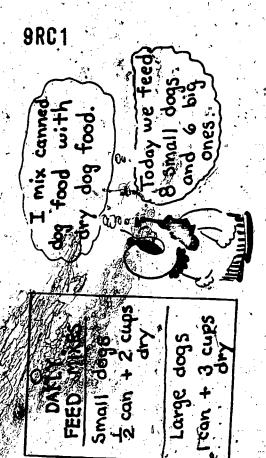
114

T 9RC1

				•	
Şmall Dogs	. 8	* 1/2	. 4	6	8 -
Big Dogs	6	3	3	2 5	. 4
Cans	10	4]5	. 8	, 8)
Cups	34	13′	17	-27	28

T 10RR1

- 1. 3.4 hours (.6 + .6 + 1.9 + .3
 - 2. \$40.80 (12 x 3.4)
- 3. \$73.80 (40.80 + 16.50 + 16.50



COMPLETE THE TABLE.

Small Dogs	8	2	4	9	8
Big Dogs	9	3	ີເນ	.2	4-
Canș	10	4			- U
Cups	34	13	4	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

10RR1

	·
Joe's Fix-it st Time Estimat	
Job , t	lours
Replace gizmo	6
Repair rutchle	2.3
Paint rutchle	.8
Replace zimp	.7
Repair zimp	1.9_
Paint Zimp	.3

Mr. Brash had to replace 2 gizmos and repair and paint a zimp.

- 1. How long did Joe's Fix-it Shop estimate it would take?
- 2. Joé's charges \$12 per hour. What did it cost Mr. Brash?
- 3. A new gizmo costs \$16.50. What was Mr. Brash's total bill?

T 11RC1

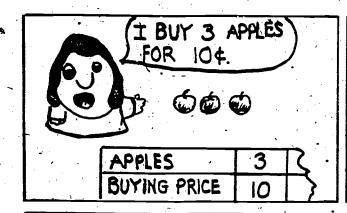
Apples	3	6	
Buying	10	20	

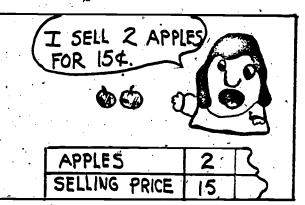
Apples	2	6
Selling	15	45

Apples	6	12	18
Profit	25	50	75

T 312RC1

Original Price	10.00	1.00	12.50	1.95	22.50	17.75
Sale price					7	,







I WONDER HOW ON MUCH PROFIT I WILL MAKE WHEN I SELL & APPLES.

OR 12 APPLES... APPLES.

APPLES 6 12 PROFIT





FIND THE SALE PRICE FOR THESE ITEMS.

Original price	10.00	1.00	12.50	1.95	22.50	17.75
Sale price	7.50	. 7 5		-		

T 13RM1 Your table could have these entries:

Length	6	1.2	8	12	24	240	80
Width	4	20	3	2	1	.1	3

The length times width must equal 24.

T 14RB1

Cans	25	100	1000	1500	1667
Pounds	1	4	40	60	66.67
Earnings	. 15	.60	6.00	9.00	10.00

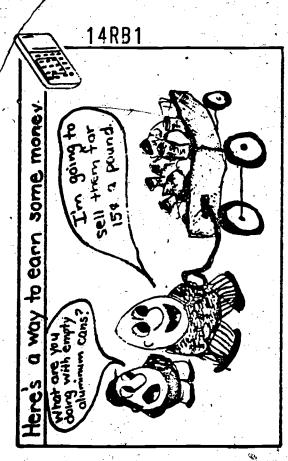
- 1. 100 cans are worth 60 cents.
- 2. You would need to collect 1667 cans.

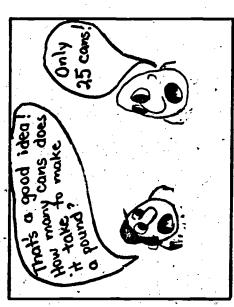
One way to get a 24 square centimeter rectangle is to make the length 6 cm and the width 4 cm.

Area 24cm²

MAKE A TABLE FOR OTHER 24 SQUARE CENTIMETER RECTANGLES.

Length	6		7
Width	4		7





1. How fuch are 100 empty aluminum cans worth?
2. How many empty aluminum cans would you need to collect to earn \$10.00?

T 15RB1

3,000,000 buttons.

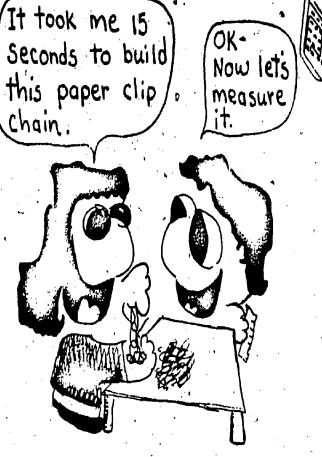
One team used this table:

Number of buttons	3	3000	3,000,000
Weight in grams	1	1 0 00	1,000,000
		lkg	1000kg

T 16RB1

Your answers will depend on the information you gather.



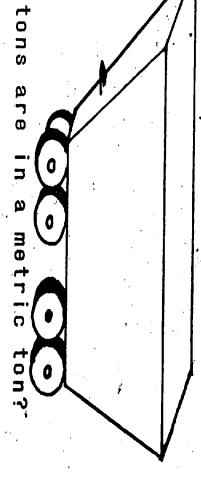


1 6 R B

WORK WITH A PARTNER AND BUILD SOME PAPER CLIP CHAINS. KEEP THE TIME AND RECORD THE LENGTHS IN THE TABLE.

T	ime	15 sec.	30 sec.	60 sec.	
CI	hain	·			3

Estimate how long it would take to make a chain which is 5 meters long.



123

T 17RB1

The desk is 81cm wide.

Notice that the differences are always 81.

T 13hSI

- 1. 9000 grams.
- 2. 9 kilograms
- 3. 3 boxes.

John used a tape measure that was broken to measure the width of his desk. He measured the desk three times and reported this data. How wide is John's desk?

One side of desk	14cm	18cm	26cm
Other side of desk	95cm	99cm	107cm

18RS1







One week the Neato Shirt Company used 27,000 buttons. Three buttons weigh a gram.

- 1. How many grams do the 27,000 buttons weigh?
- 2. How many kilograms do the 27,000 buttons weigh?
- 3. The buttons are packaged in 3-kilogram coxes. How many boxes are needed for 27,000 buttons?

T 19RR1

- 1. 10 centimeters.
- 2. 110 centimeters. -
- 3. 80 grams.
- 4. 30 centimeters.

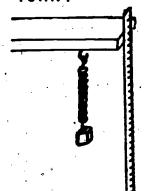
T 20RM1

Your table could include these entries:

Days	1	2	3	4	5	6	3
Pages read	1	2	4	8	16	32	R

	10	11	12	B
7	512	1024	2048	3





Weight in grams	10	15	2 5	30	50	75	100
Length of spring (cm)	50	60	80⁴-	90	130	180	230

We measured the length of the spring for the weights and put the data in the table.

USE THE TABLE TO ANSWER THESE QUESTIONS.

- 1. How much does the spring stretch for each 5 grams we added to the weight?
- 2. How long would you expect the spring to be for a weight of 40 grams?
- 3. When the spring was 190 cm long, how much weight was on the spring?
- 4. How long is the spring when there is no weight placed on it?



20RM1



I will read twice as many pages each day as I did the day before.

MAKE A TABLE WITH 5 MORE ENTRIES.

Days	1	2	3	1
Pages read	1	2	4	3

T 21RM1

Your table could have these entries:

Number of clips	100	1	2	3	200	300
Number of grams	105	1.05	2.1	3.15	210	315

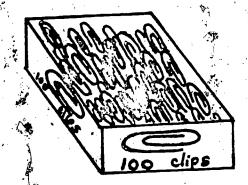
T 22RR1

- 1. 30cm
- 2. 120g

One team noticed that the spring stretched lcm for every 2 grams of weight attached to the spring.



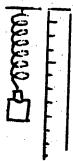
The filled box of paper clips weighs 107.3 grams. The empty box weighs 2.3 grams.



MAKE A TABLE WITH 5 MORE ENTRIES

Number	of	clips	•	r		
Number	of	grāms		4	,	A

22RR1



Here is the data our science class collected.

Weight (g)	50	60	100	
Length (cm)	1 5	20	. 40,	

USE THIS DATA TO ANSWER THESE QUESTIONS.

- 1. How long do you think the spring would be with a weight of 80 grams?
- 2. We stretched the spring to 50 centimeters. How much weight did we use?

T 23RC1

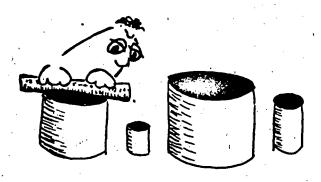
Distance Across ^	1	2	3	6	10	15
Distance Around	3.14	6.28	9.42	18.84	31.4	47.1

T 24RS1

	T				
Shirts	78	85	79	97	87
	1				
Buttons	390	425	395	485	435

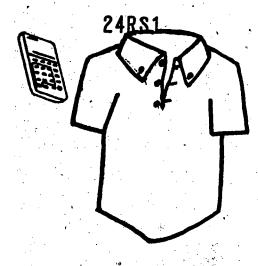
- 1. 2130 buttons were used.
- 2. 2870 buttons were left.
- 3. Yes, they made 426 shirts and their goal was 425.





· COMPLETE THE TABLE.

Distance across	1	2	3	6	10	15.
Distance around	3.14	6.28				,



THE NEATO SHIRT COMPANY MAKES A PULL-OVER SHIRT WHICH HAS FIVE BUTTONS. COMPLETE THE PRODUCTION TARLE

LVDER.	Mon.	Tues.	Wed.	Thurs.	Fri.
Shirts	78	85	79	97	,87
Buttons					

- 1. How many buttons were used during the entire week?
- 2. The Neato Shirt Company had 5000 sport shirt buttons at the beginning of the week. How many were left at the end of the week?
- 3. The production goal was to average 85 shirts each day. Did they make their goal for the week?

T 25RB1

Station wagon	16	32	160	192	208
Gallons	1	2.	10	12	13

We can go 208 miles on 13 gallons of gas in the station wagon.

Small car	26	52	208
Gallons	1	2	[′] 8

We can go 208 miles on 8 gallons of gas in the small car. We save 5 gallons of gas by taking the small car.

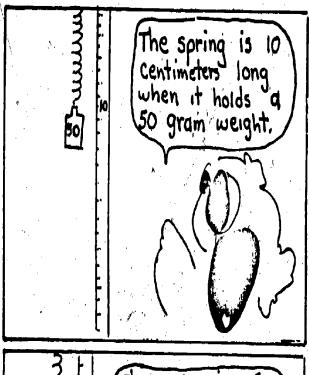
T 26RB1

This table should help:

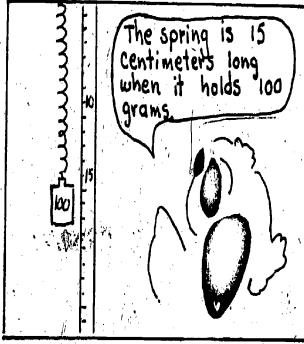
Length of spring	10cm	15cm	20cm	25cm
Weight (in grams)	50	100	150	200

Adding 10 g of weight stretches the spring 1 cm. Adding 100 g stretches the spring 10 cm. The spring is $\underline{25}$ cm when it holds a 200 g weight.

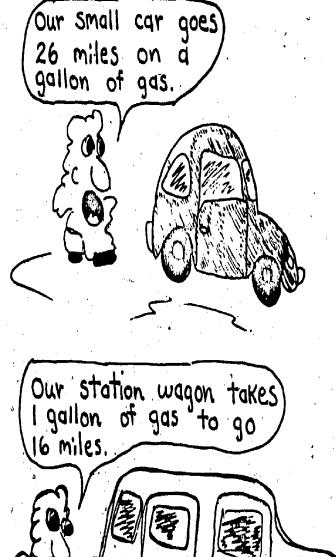




26RB1



How long will the spring be when I attach a 200 gram weight?



How many gallons of gas do we save by taking the small carrather than the station wagon on a 208 mile trip?

T 27RR1

- 1. 64 is 8 squared and 36 is 6 squared.
 64 + 36 = 100
- 2. 169 is 13 squared and 144 is 12 squared.
 169 144 = 25
- 3. 9 is 3 squared and 16 is 4 squared.
 9 + 16 = 25

T 28RS1

	-					
Worked	. 36	3.8	40	42	44	46
Paid	36	38	40	43	46	49

- 1. \$242.88 (She is paid for 46 hours).
- 2. \$258.72 (She is paid for 49 hours).
- 3. \$200.64 (She is paid for 38 hours).

27RR1

Table of Squares

N	N×N	N	N×N	N	N×N	N	N x X
1	1	6	36	11	121	16	256
2	4	7	49.	12	144	17	289
3	9	8	64	13	169	18	324
4	16	9	81	14	196	19	361
5	25	10	100	15	225	20	400

USE THE TABLE TO SOLVE THESE:

- 1. Find 2 squares whose sum is 100.
- 2. Find 2 squares whose difference is 25.
- 3. Find 2 squares whose sum is 25.

28RS1



Mrs. Stitch makes button holes for the Neato Shirt Company. When she works more than 40 hours in a week, she is paid 3 hours for working 2 hours. COMPLETE THE TABLE.

, -	Worked	36	38	40	. 42	44	46
	Paid	36	38	40	43		

Mrs. Stitch is paid \$5.28 per hour. When she works 42 hours a week she is paid \$227.04.

- 1. What is she paid when she works 44 hours?
- 2. What is she paid when she works 46 hours?
- 3. What is she paid when she works 38 hours?

T 16B1
This table should help:

Time	1 second	1 minute	30 minutes
Inches	7.5	450	13,500

13,500 inches That is 1,125 feet.

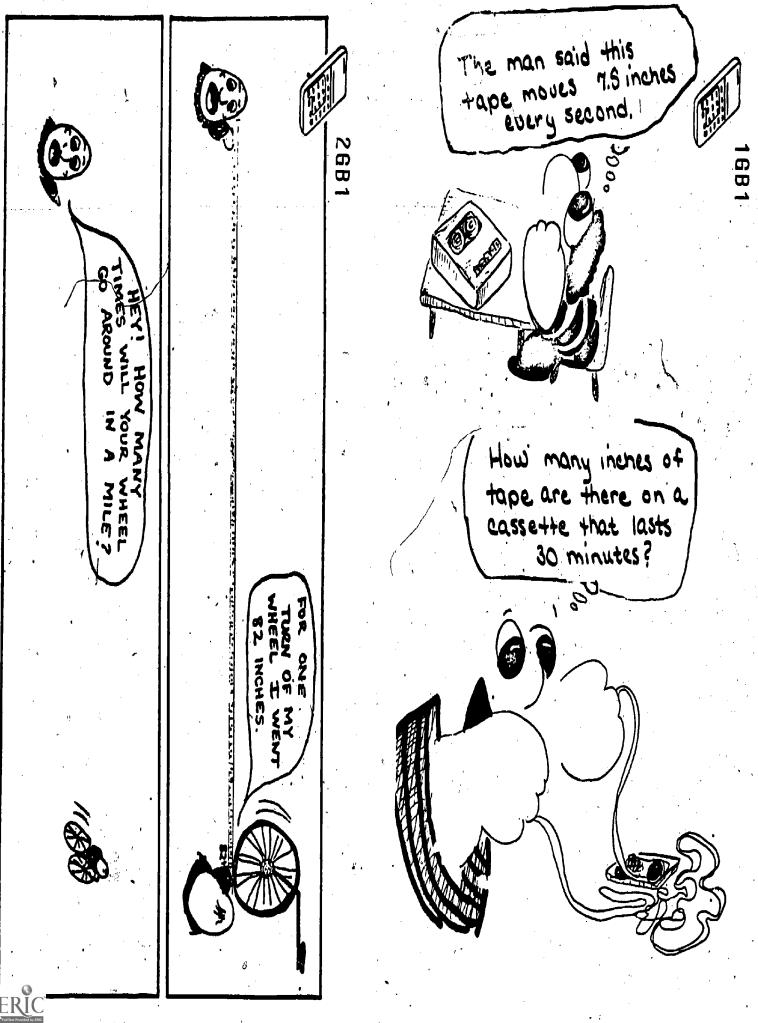
T, 26B1

The wheel goes about 6.8 feet for one turn.

There are 5280 feet in a mile.

5280 ÷ 6.8 = 772.7

The wheel will go around about 773 times in 1 mile.



T 36S1

Rich either had 65 cents or 70 cents.

If he had 65 cents he could buy:
9 pieces for 15¢ and
35 pieces for 50¢.

If he had 70 cents he could buy:
30 pieces for 50¢ and
14 pieces for 20¢.

Pieces	3	, 6	9	12	15
Cost	5	10	15	20	25 [,]

Pieces	7	14	21 28	35
Cost	10	· 20	30 4. 40	50

T 46S1

Square feet	30	50,	56	J 42
Skeins	12	20	23	17
Cost	\$15.60	\$26.00	\$29.90	\$22.10

- 1. 20 skeins
- 2. 23 skeins
- 3. \$22.10

Rich bought two kinds of candy. One type sold at 35pieces for 5 cents and the other kind sold at 7 pieces for 10 cents. He looked at the tables he made and said he had enough money to buy 44 pieces. How much money did he have?

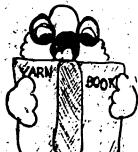
Pieces	3	7
Cost	5	7

Pieces	7		7
Cost	10 -	•	(



The afghan I'm going to make is 6 feet by 5 feet and it will take 12 skeins of yarn --- and each skein costs, \$1.30.

Skeins	\$15.60	+-(
Square feet	30	-



- 1. How much yarn should I buy to make a 5 feet by 10 feet afghan?
- 2. How many skeins are needed to make a 7 feet by 8 feet afghan?
- 3. How much does it cost to make a 6 feet by 7 feet afghan?



T 56M1

Your table could include these entries:

Kilometers	192	10.5	39.7	882	105	210	315
Liters	18.3	1	3.78	84	10	20	30

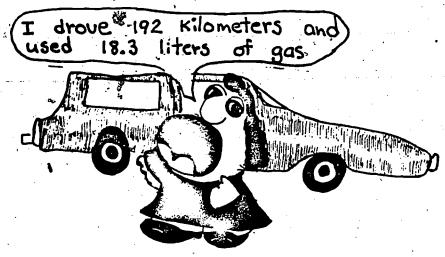
T 6631

Dimes	1	2	3	4	5	
Length	1.8	3.6	5.4	7.2	9.0	

Quarters	1	2	3	4	5
Length	2.4	4.8	7.2	9.6	12.0

- 1. 10.8cm (3.6 + 7.2)
- 2. 3 dimes and 2 quarters (5.4 + 4.8)
- 3. 14.4cm (3 quarters and 4 dimes)





MAKE A TABLE WITH 5 MORE ENTRIES.

Kilometers	192	{
Liters *	18.3	~

6681





LINE UP COINS AND COMPLETE THE TABLE.

Dimes	1	2	3	4
Length (in cm)				K

Quarters	1.	2	. 3	4	~
Length (in cm)	• •				Z

USE YOUR TABLE TO ANSWER THESE QUESTIONS.

- 1. How long is a line of coins made up of 2 dimes and 3 quarters?
- Five coins, quarters and dimes, make a line that is 10.2 centimeters long. What coins are in the line?
- 3. A line of 7 coins is worth \$1.15. How long is the line?

T 7681

Pennies	4	5	6	7	8	9	10
Length	7.6	9.5	11.4	13.3	15.2	17.1	19.0

- 1. 6 pennies.
- 2. 52 or 53.
- 3. 95cm.

T 86R1

1.
$$\sqrt{4} = 2$$
, $\sqrt{9} = 3$

2.
$$\sqrt{14} - \sqrt{13} = 3.74 - 3.61 = .13$$

3.
$$\sqrt{14-13} = \sqrt{1} = 1$$



LINE UP PENNIES AND USE YOUR METRIC RULER TO COMPLETE THE TABLE.

Number of pennies	4	5	6	7	8	9	10
Length in centimeters			•	•		·	

USE THE TABLE TO ANSWER THESE QUESTIONS:

- 1. If you had a line of pennies that was 11.4 cm long, how many pennies are in the line?
- 2. A meter is 100 cm long. How many pennies would it take to make a line 1 meter long?
- 3. A roll of pennies holds 50 pennies. How long a line can you make with 50 pennies?

8GR1

Table of Square Roots

- "	N	111	·N	1.11	N	VN.	N	√N ⁺
	1.	1.00	6	2.45	11	3.32	16	4.00
	2	1.41	7	2.65	12 .	3.46	1.7	4.12
	3	1.73	8	2.83	13	3.61	18	4.24
	1	2.00	. 9	3.00	14	3.74	19	4.36
	5	2.24	10	3.16	15	3.87	20	4.47

USE THE TABLE TO DO THESE:

- 1. Find 2 numbers whose square roots add to 5.00.
- 2. Find 14 13.
- 3. Find $\sqrt{14-13}$.

106R1 USE THE TABLE TO PLAY THE TUBE-CUBE GAME.

Number of cubes	1	2	3	4	- 5	6
Number of corners	8	16	24	32	40	48
Number of faces	6	12	18	24	30	36
Number of edges	12	24	36	48	60	72



SOME CUBES ARE IN A TUBE. FIND HOW MANY CUBES ARE IN THE TUBE FROM THESE CLUES.

- Game 1. There are 16 more edges than corners.
- Game 2. Number of corners plus the number of faces plus the number of edges is 78.
- Game 3. There are more than 30 edges, more than 30 corners, but less than 30 faces.
- Game 4. There are less than 70 edges, less than 35 corners, and more than 19 faces.

T 96C1

Club	. 2	3	4	5	6	7
Yards	220	208	196	184	172	160

- 1. 160 yards.
- 2. 5 iron and a 2 iron.

T 106R1

Game 1. 4 cubes

Game 2. 3 cubes

Game 3. 4 cubes

Game 4. 4 cubes

T 96C1

Club .	2	3	4	. 5	6	√ 7
Yards	220	208	196	184	172	160

- 1. 160 yards.
- 2. 5 iron and a 2 iron.

T 106R1

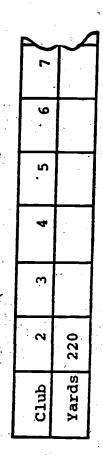
Game 1. 4 cubes

Game 2. 3 cubes

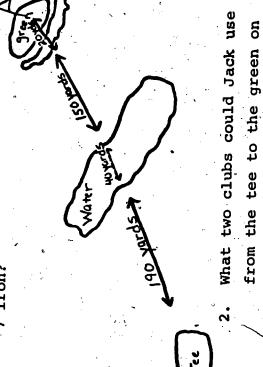
Game 3. 4 cubes

Game 4. 4 cubes

96C1 can Jack Nicklaus Ф

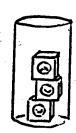


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106R1 USE THE TABLE TO PLAY THE TUBE-CUBE GAME.

Number of cubes	1	.2	· 3	4	5	6
Number of corners	8	16	24	. 32	40	48
Number of faces	6	12	18	- 24	30	36
Number of edges	12	24	36	48	60°	7,2



SOME CUBES ARE IN A TUBE. FIND HOW MANY CUBES ARE THE TUBE FROM THESE CLUES.

- Game 1. There are 16 more edges than corners.
- Number of corners plus the number of faces plus the Game 2. number of edges is 78.
- There are more than 30 edges, more than 30 corners, but Game 3. less than 30 faces.
- There are less than 70 edges, less than 35 corners, and more than 19 faces.

T 11681

- 1. You can turn twice as many pages in one minute as you turned in 30 seconds.
- 2. You turned about twice as many pages in 2 minutes as you could turn in one minute.
- 3. It would take her twice as long as you.

T 12681

Your table should have these headings:

Number of minutes	1	10	60	1440
Number of heartbeats				

Your answers to questions 1, 2, and 3 depend on the number of heartbeats you counted in one minute.

TURN ONE PAGE OF A BOOK AT A TIME AND TIME YOURSELF TO SEE HOW MANY PAGES YOU CAN TURN IN 30 SECONDS. RECORD YOUR DATA IN THE TABLE.

Pages			1.5
Seconds	30	•.	3

- 1. How many pages can you turn in one minute?
- 2. You wrote your friend's new telephone number in the margin of a book. Later it took you 2 minutes of turning pages to find the number. About how many pages did you turn?
- 3. It takes your friend twice as long to page through a book.

 How long would it take her to page through a 160-sheet
 notebook?



12681

COUNT YOUR HEARTBEATS FOR 1 MINUTE.

MAKE A TABLE TO SOLVE THESE PROBLEMS.

Number of minutes		7
Number of heartbeats	•	3

- 1. How many heartbeats do you expect to have in the next 10 minutes?
- 2. How many heartbeats in the next 60 minutes?
- 3. How many heartbeats in one day?

T 136B1

\$1328.59

After 1 year, \$2250.

After 2 years, \$2025.

After 3 years, \$1822.50.

After 4 years, \$1640.25.

After 5 years, \$1476.22.

After 6 years, \$1328.59.



T 146M1

Your table could have these entries:

Revolutions of big wheel	1	2	3	4	.546	1 093
Revolutions of little wheel	1.83	3.66	5.49	7.32	1	2

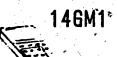
Multiplying 1.83 times numbers in the top produces the numbers in the bottom row.



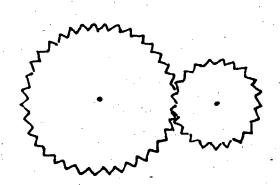
Our new 16-foot boat cost \$2500. Dad says that each year it will be worth 10% less than the year before.

Worth	\$2500		,	_			
Year	0	, 1	2	3	4	5	6

How much will it be worth when it is 6 years old?



When the big wheel turns 1 revolution, the little wheel turns 1.83 revolutions.



MAKE A TABLE WITH 5 MORE ENTRIES.

Revolutions on big wheel	1		7
Revolutions on little wheel	1.83/	`	7

T 156B1

Total time	1.5	3	60	60	24	1
	sec.	sec.	sec.	min.	hours	vear
Light on	.5 sec.	l sec.	20 sec.	20	8	121.67

2920 hours

T 166B1

This table would help:

Year	1976	1956	1936	1916	1896
Generation	1	2	3	4	5
Number of relatives	2	4	8	16	32

1636	1 <u>,</u> 616
18	19
262, 144	524, 288

156B1

The light on this building blinks for .5 second, is off for 1 second, then blinks for .5 second.

COMPLETE THE TABLE

	(# 0)					4.	7 (
\cdot	Total time	/i.5	3	60	60	24	1		
		sec.	sec.	sec.	min.	hrs.	yr.	 1	┊╏╼┾╼┥╶╏
	Time on	. 5	. 1						

How many hours is the light on during a year?

166B1

There were 101 people that came across on the Mayflower in 1620. If you were a direct descendant of two of those people, how many relatives (include only father, mother, grandfather, grandmother, etc.) would you have since 1620? (Assume a new generation every 20 years.)

-	100	, F		•	_	
Year	1976	1956	1936			
Generation	· •	2	3		5	了
Number of relatives	, 2 2	4	8		i e	

Cassette label	M30	M40	M60	м90
Length of tape	562.5	750	1,125	1687.5

T 186R1

A new one costs more.

For a new one the charges are:
Zimp \$20.00

Labor .7 x 12 ... $\frac{8.40}{$28.40}$

For repairing and painting the old one:

Repairing 1.9 x 12 . \$22.80

Painting .3 x 12 . . $\frac{3.60}{$26.40}$



A 30 minute cassette plays 15 minutes on each side of the tape.

I remember
the tape moves
at 7½ inches
per second.



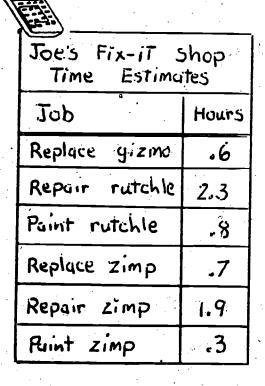
How many feet of tape is in each of these cassettes?

M30 cassettes play 15 minutes on each side. An M40 plays

20 minutes on each side.

Cassette label	M30	M40	M60	м90
Length of tape			·	





A new zimp costs \$20. Labor is \$12 per hour.

What costs more:
replacing a damaged zimp
with a new one or
repairing and painting a
zimp?

T 196M1

Your table could have these entries:

Revolutions on little wheel	2	1	3	100	2.17	217.4
Revolutions on big wheel	.92	.46	1.38	46	1	100

Multiply .46 times numbers in the top row to get numbers in the bottom row.

Divide numbers in the bottom row by .46 to get numbers in the top row.

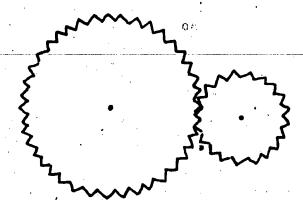
T 206C1

Days	1	2	3	3	4
Miles	100	225	375	480	525
Total Bill	\$41.95	\$88.65	\$140.10	\$160.05	\$191.55

196M1



When the little wheel turns 2 revolutions, the big wheel turns ...92 revolution.



MAKE A TABLE WITH 5 MORE ENTRIES.

Revolutions on little wheel	2		3
Revolutions on big wheel	.92	<u>-</u>	Z

206C1

HURTS RENTAL I need

22.95 per day.

19\$ per mile

gas included

23.95

CALCULATE THE RENTAL COSTS.

Days '	1	2	3	3	Α
Miles	100	225	375	480	525
Total bill	\$41.95	•			

Grade	Grade 4 Grade 5 Grade 6		Grade 6	Grade 7	Grade 8
Amount of candy	\$101.00	\$205.00	\$115.75	\$97.25	\$209.50
Profit for class	\$20.20	\$41.00	\$23.15	\$19.45	\$41.90

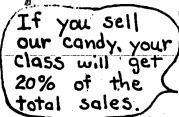
T 226C1

Your tables will depend on the length of the strings you used.

Regardless of the length of the strings, your pendulum will will swing twice as many times in 2 minutes as it did in one minute.









Here are the amounts each class sold. Find how much profit they made.

Grade	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Amount of candy	\$101.00	\$205.00	\$115.75	\$97.25	\$209.50
Profit for class	\$20.20	\$41.00	<u> </u>		

What was the total profit for the school?

22601



USE STRING AND A SMALL WEIGHT TO MAKE A PENDULUM. USE A WATCH AND COUNT THE SWINGS TO FILL IN THE TABLE.

Time in minutes	1	2	3	4	5
Swings of pendulum					

TRY A LONGER PENDULUM

Time in minutes	i	2	3	4	5
Swings of pendulum					

TRY A SHORTER PENDULUM.

Time in minutes	1	2	3	4	5
Swings of pendulum					





COMPLETE THE TABLE.

Distance across (cm)	1	5.2	4.37	.94	97.6
Distance around (cm)	3.14	16.33			

T 236C1

Distance across	1	5.2	4.37	.94	97.6
Distance around	3.14	16.33	13.72	2.95	306.46