CHAPTER THREE. TRAFFIC.

	MON	TUES	WED	THUR	FRI	SAT	SUN	TOTAL
Park. Speed PCA Other	\$123 \$671 \$870 \$ 78	\$346 \$486 \$985 \$ 83	\$480 \$389 \$835 \$ 61	\$678 \$890 \$932 \$129	\$763 \$284 \$678 \$94	\$498 \$819 \$342 \$46	\$120 \$678 \$356 \$106	\$
TOTAL								
Wee}	CONE.	WEB	EKLY TOT	FAL :		er.		
	MON	TUES	WED	THUR	FRI	SAT	SUN	TOTAL
Park. Speed PCA _. Other	\$343 \$560 \$913 \$478	\$678 \$782 \$753 \$267	\$287 \$684 \$472 \$863	\$690 \$740 \$952 \$456	\$635 \$564 \$578 \$746	\$598 \$638 \$892 \$324	\$349 \$123 \$646 \$112	\$
TOTAL								
Wee}	K TWO.	WEE	EKLY TOT	CAL :				
	MON	TUES	WED	THUR	FRI	SAT	SUN	TOTAL
Rego. Park. Speed PCA Other	\$456 \$712 \$695 \$899 \$243	\$709 \$391 \$648 \$653 \$156	\$460 \$722 \$899 \$756 \$403	\$768 \$560 \$346 \$843 \$124	\$945 \$802 \$704 \$806 \$224	\$684 \$389 \$744 \$722 \$336	\$345 \$602 \$892 \$789 \$426	\$
TOTAL								
Wee}	C THREE	E. WEE	EKLY TOT	PAL :				

SET 2. At the traffic lights of Main St. Toytown, Jennifer stood and recorded the following number plates of the cars that passed.

M	AC 30	PA 45	TF 66	CV 73	YP 81	нк 99	FE 91
N N	WE 48	EA 23	TG 76	нј 37	KL 93	DW 35	FF 47
D A V	QE 57	FG 85	HJ 21	RJ 65	ML 46	GE 29	DP 63

For the above plates, place a RING around each two digit number that is a multiple of 2.

T U F	WR 24	PT 48	TF 66	HJ 73	PT 81	нк 99	FE 93
£ S	WE 40	WW 23	TG 76	HJ 46	KL 78	WY 32	FF 19
D A	QR 60	FG 88	BT 21	KU 15	TO 46	WE 29	US 63

For the above plates, place a RING around each two digit number that is a multiple of 3.



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TAT.							
E	AC 30	PA 45	TF 66	CV 73	YP 81	нк 99	FE 24
D N	WT 48	EF 20	QP 14	HJ 44	KL 93	BY 35	AS 82
E S	QE 89	NM 85	НЈ 50	RR 65	MP 46	JM 29	DP 63
D							

A For the above plates, place a RING around each two digit Y number that is a multiple of 4.

T H	AC 30	PA 45	TF 60	GH 06	MD 42	SZ 28	GG 75
R	WE 48	EA 23	TG 76	НЈ 37	KL 93	DW 35	FF 47
D D	QE 57	FG 85	YU 72	RJ 65	DE 55	QA 13	DP 63

Y For the above plates, place a RING around each two digit number that is a multiple of 5.

F R T	WQ 36	PO 45	XB 66	CV 73	YP 81	SL 54	FE 14
L D	WE 48	EA 27	TG 76	EE 82	VU 68	DW 23	FF 58
A Y	QE 51	FG 42	НЈ 60	RT 84	FL 16	HE 66	KP 53

For the plates above, place a RING around each two digit number that is a multiple of 6.

SET 3. Consider the following chart which displays the number of trucks which pass through a set of traffic lights. Then complete the questions

(a) How many	Monday	
trucks passed on MONDAY	Tuesday	
[]	Wednesday	
TUESDAY	Thursday	
LJ WEDNESDAY	Friday	
[]	Saturday	= 10 trucks
THURSDAY		<u> </u>
[]		
FRIDAY [] SATURI	DAY []
(b) Calculate the	total number	r of trucks in a week. []
(c) Draw trucks to (i) 40 trucks	o represent	
(ii) 70 trucks	5	



SET 5. Calculate the number of cars that passed each of the given intersections.

Intersect.	A	В	С	D	E	F	G	Subtotal
Red	120	130	109	178	134	123	189	
White	60	35	44	56	32	78	98	
Black	205	300	289	497	321	432	213	
Green	409	76	154	273	418	73	304	
Blue	205	206	209	190	247	218	274	
Pink	36	109	56	77	234	88	4	
TOTALS								

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Number of cars	22 20 18 16 14 12 10 8 6 4 2 0	Jeni Count	ny's S taken on G C	econ Friday,	d Tal 13th Jur P of cars	ly She	eet B		SET Je surv the colc cars by She find Shee the com grap her for	n n i rey, the the reco lings ets. min owin ets, bla plet tall the	6. f shulif cat ord ord f: ank ce f f ank ce f d	In er's e noted ferent of the passed lights. ded her n Tally the Tally ill in ts and the omplete table lay and
ansv (a)	ver t Writ	ne ic e dow	m the	g que	scions	ō •		COL	OUR	TALI	Y	No.
[1] [2] [3] [4]	Grea Leas The The	test t num range most	number ber of of nu common	of c cars mbers colo	ars]]]	Red Gre Ora Pin Whi	en nge k			
(b)	Calc numb	ulate er of	the t cars	otal	(]	Blu	e			
(C)	Whic	h two	o colou	rs ha	ve the	e same	numbe	er ?	[_]	
(d)	Writ	e dow	n the	fract	ion of	red o white green	cars ? e cars n cars	2 5 7 7 7	[[_] _]	
(e)	The	sum c	of the	red a pink orang	nd whi and bl e and	lte can lue can green	rs ? rs ? cars	?	[[_] _]	
SET calc calc	<u>7.</u> A culat culat	ndrew ing i ions	decid n the for An	ed to rever drew.	check se dir	some rection	of Je n. Per	enny' form	s fig the	gures foll	s b Low	y ving
a)	1	- of 1	.8 cars	= []	g)	$\frac{1}{7}$ c	of 35	cars	= []
b)		$\frac{1}{4}$ of 2	24 cars	= []	h)	$\frac{1}{6}$ 0.	f 126	cars	5 = []
C)		$\frac{1}{5}$ of 3	30 cars	= []	i)	$\frac{1}{5}$ c	of 80	cars	= []
d)		$\frac{1}{5}$ of e	50 cars	= []	j)	$\frac{1}{4}$ 0.	£ 180	cars	5 = (]
e)		$\frac{1}{4}$ of e	54 cars	= []	k)	$\frac{1}{6}$ 0	of 96	cars	= []
f)		$\frac{1}{6}$ of	69 car	s = []	1)	$\frac{1}{7}$ c	of 154	1 car	' <i>s</i> =	[]

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SPEED

 $\underline{\texttt{SET 8.}}$ Calculate the speed of some of the cars that passes by the traffic lights.

				-				
CAR	DIST.	TIME	SPEED		CAR	DIST.	TIME	
AB35	64km	2hr			WE90	90km	3hr	
MC87	24km	6hr			HJ83	42km	7hr	
CW92	300km	6hr			LP53	280km	7hr	
QE80	812km	4hr			DD90	1023km	3hr	
PA43	1266km	6hr			SP23	1274km	7hr	
AH34	146km	2hr			WS91	147km	3hr	
MK51	288km	6hr			KK82	315km	7hr	
FT93	432km	6hr			XC44	644km	7hr	
EW56	420km	4hr			PL67	771km	3hr	
EF77	4812km	4hr			OL23	8931km	3hr	
PA43	4494km	6hr			SP23	5782km	7hr	

SET 9. All of the following drivers have been given an ON-THE-STOP fine for speeding. Calculate the Minimum Number of the indicated cash Notes required to "cover" the fine.

Driver	Daniel	Robin	Norah	Colin	Sammy	Sonia	Sunny
Fine	\$184	\$307	\$892	\$207	\$929	\$372	\$905
N \$ 10							
T \$ 5							
E \$ 2							
Driver	Donna	Robby	Kelly	Jerry	Bobby	Sunny	Rita
Fine	\$235	\$789	\$507	\$455	\$237	\$632	\$814
N \$ 10							
T\$5							
S\$2							
Driver	Sid	Ray	Des	Rex	Joe	Son	Ron
Fine	\$184	\$307	\$892	\$207	\$929	\$372	\$905
N \$ 10							
T\$5							
S\$2							

<u>SET 10.</u> The following careless drivers have been given a number of parking fines. Calculate the total value of the fines and the change (if any) from the given Cash value.

Driver	Donna	Robin	Nita	Mary	Fry	Sand	Reddy
Fine	\$36	\$112 \$174		\$204 \$164		\$198	\$163
Number	х 3	X 4	X 5	X 6	X 5	X 3	х б
Total							
Cash	\$150	\$500	\$900	\$1300	\$1000	\$800	\$1100
Change							
Driver	Ruth	Sally	Nita	Adam	Fred	Ron	Sammy
Fine	\$234	\$382	\$244	\$318	\$319	\$238	\$672
Number	X 4	X 4	X 5	X 5	X 5	X 6	х б
Total							
Cash	\$1200	\$1600	\$2500	\$1800	\$2000	\$1500	\$4500
Change							

<u>SET 11.</u> Carefully examine the following diagrams of traffic intersections. Join the dots with straight lines using a ruler. You will make squares, rectangles, triangles, pentagon (5-side), hexagon (6-side) and octagon (8-side). Name each figure. Measure the distance of each outside border to the nearest millimetre, Write the measurements on each side and calculate the perimeter of each figure.



<u>SET 12.</u> A parking station charges 7 cents a minute for parking cars. Calculate the bills for the following cars. Complete the Seven Times table first.

х	2	3	4	5	6	7	8	9	10
7									

CAR	AX45	т078	WE34	QA92	YY14	L067	SF90
MINUTES	5	9	7	20	60	40	80
TOTAL							
CAR	ТҮ76	KL83	RT56	QT92	VB57	IU90	KM82
MINUTES	14	19	17	15	23	28	16
TOTAL							
CAR	AX45	т078	WE34	QA92	YY14	L067	SF90
MINUTES	24	18	33	41	53	29	64
TOTAL							

SET 13. Examine the following car parks.

(a) Calculate the length of the fence required (i.e. the perimeter).

(b) A car occupies one complete square. By drawing in the smaller squares, calculate the total number of cars that can be parked in each car park.







SET 14. Examine the outline of the map of DULLSVILLE. Each intersection is marked with a letter. Because of council rules, there are great time delays at each intersection. The actual times are displayed on the map in minutes. A taxi continually travels around the town. Calculate the time delay for each of the given

journeys.



PATH FOR JOURNEY	TIMES FOR EACH STOP	TOTAL TIME (in mins)	TOTAL TIME (in hrs/mins)
A-B-C			
D-E-F			
G-H-I			
A-D-G-H			
B-E-H-I			
I-F-E-B			
H-G-D-A-B			
F-E-B-C			
B-C-F-E-H			

SET 18. Calculate the speed in seconds at which the following Traffic Lights change colour. The speed is controlled by the sentences following.

1):	$\frac{16}{8} =$	[]					
2)	$\frac{14}{7} =$	[]	11)	4 x 8 - 12	=	[]
3)	50 =	[]	12)	40 - 3 <i>x</i> 7	=	[]
A \	2 84	- r	1	13)	3 x 9 - 24	=	[]
4)	3	L	j	14)	50 - 4 <i>x</i> 9	=	[]
5)	$\frac{65}{5} =$	[]	15)	4 x 6 - 15	=	[]
6)	$\frac{56}{4} =$	[]	16)	60 - 7 <i>x</i> 6	=	[]
7)	132 =	[]	17)	5 x 3 - 12	=	[]
·	6 279	r	-	18)	70 - 8 <i>x</i> 5	=	[]
8)	9	L	1	19)	6 x 6 - 31	=	[]
9)	$\frac{324}{2} =$	[]	20)	80 - 9 <i>x</i> 8	=	[]
10)	$\frac{515}{5} =$	[]					

<u>SET 19.</u> Complete the following practice tables.

(a)

_	90	34	67	81	39	52	43	76
17								
29								
34								
(b)								

x	90	34	67	81	39	52	43	76
7								
9								
6								

(C)

/	36	90	144	54	108	164	72	126
3								
9	,							
6								

(d)

SQ.	6	2	8	3	9	5	4	7

SET 20. James, the local engineer has the brilliant idea to make travelling the streets of DULLSVILLE safer. He is going to cover all the man-made holes in the streets with special figures. To let you construct these special figures for James, you must follow the following steps.



(1) Measure the angles above using a protractor.

(2) Using the baselines below, draw the following angles.



1).	$\frac{16}{8} = [$]					
2)	$\frac{14}{7} = [$]	11)	4 x 8 - 12	=	[]
3)	$\frac{50}{50} = [$]	12)	40 - 3 <i>x</i> 7	=	[]
•	2 84 r	1	13)	3 x 9 - 24	=	[]
4)	$\frac{1}{3}$ = [ļ	14)	50 - 4 <i>x</i> 9	=	[]
5)	$\frac{65}{5} = [$]	15)	4 x 6 - 15	=	[]
6)	$\frac{56}{4} = [$]	16)	60 - 7 <i>x</i> 6	=	[]
7)	$\frac{132}{132} = [$]	17)	5 x 3 - 12	=	[]
, ,	6 279 _ r	·	18)	70 - 8 x 5	=	[]
8)	9	.]	19)	6 x 6 - 31	=	[]
9)	$\frac{324}{2} = [$]	20)	80 - 9 <i>x</i> 8	=	[]
10)	$\frac{515}{5} =$	[]					

SET 19. Complete the following practice tables.

(a)

_	90	34	67	81	39	52	43	76
17								
29								
34								

(b)

X	90	34	67	81	39	52	43	76
7								
9								
6								

(C)

/	36	90	144	54	108	164	72	126
3								
9								
6								

(d)

SQ.	6	2	8	3	9	5	4	7

<u>SET 20.</u> James, the local engineer has the brilliant idea to make travelling the streets of DULLSVILLE safer. He is going to cover all the man-made holes in the streets with special figures. To let you construct these special figures for James, you must follow the following steps.



(1) Measure the angles above using a protractor.

(2) Using the baselines below, draw the following angles.

					· · · · · · · · · · · · · · · · · · ·			
a)	60°	b)	45°		c) 30°		đ)	75°
e)	20°	f)	105°		g) 22°		h)	54°
(3) sect	Draw a cion of	fence of the page	circles, . Be neat	all and	the same tidy.	size,	across	s this



- (5) Complete the shapes above using compasses, protractor and pencil.
- (6) Double the size and reproduce the shapes (in step 4) on cardboard. Label each shape correctly and fix them onto a sheet of paper.

SET 21. Given the following codes which combine to control various traffic lights. Combine the codes by subtraction to determine the time delay (in minutes) that the arrangement creates.

* A = 35 mins B = 27 mins C = 64 mins D = 46 mins * * E \doteq 58 mins F = 71 mins G = 25 mins H = 19 mins *

_	А	В	С	D	E	F
G						
Н						

<u>SET 22.</u> By calculating the following "secret formulae" , complete the number plates of the taxis in DULLSVILLE.

1)	3 + 5 <i>x</i> 6	=	[ABC]		
2)	8 x 3 - 21	=	[YTH]		
3)	14 + 9 <i>x</i> 7	=	[GOP]		
4)	7 <i>x</i> 7 - 35	=	[WER]		
5)	68 - 6 <i>x</i> 7	=	[<u>YO</u> U]		
6)	21 x 3 - 23	=	[DER]		
7)	90 + 3 X 8	=	[ASE]		
8)	9 <i>x</i> 7 - 36	=	[DUY]]		
9)	72 - 7 <i>x</i> 4	=	[ZXX]		
10)	8 x 6 + 49	=	[UKK]		
11)	(2x7)+	(3	<i>x</i> 6)	=	[AWE]
12)	(7 x 2) -	(3	x4)	=	[<i>QOU</i>]
13)	(9 <i>x</i> 5)-	(4	<i>x</i> 6)	=	[ERT]
14)	(8x7)+	(6	x3)	=	[<i>00P</i>]
15)	(7 x 4) -	(6	x2)	=	[SXZ]
16)	(6 x 8) +	(7	x3)	=	[REX]
17)	(7 <i>x</i> 5)-	(3	<i>x</i> 10)	=	[JOH]
18)	(4x7)+	(7	x5)	=	[ERA]

SEI	23.	Fill	in	this	progres	sive	table	which	shows	the	number
of	passe	engers	s or	1 thre	e DULLS	VILLE	trains	5.			

TRAIN	CITY EXPRESS	STREAM TWO	GREY FLASH
No. in Train	1400	1350	1540
No. getting on	456	765	234
Total 1			
No. getting off	905	604	780
Total 2			
No. getting on	1234	896	933
Total 3			
No. getting off	1098	1123	965
Total 4			
No. getting on	456	942	393
Total 5			