Answer Key											
1.	n = 3	33.	512								
2.	4x - 4 + 5x + 10 = 3x - 24	34.	256								
	9x + 6 = 3x - 24	35.	10								
	6x = -30	36	1000								
	x = -5	27	1000 F								
3.	3x + 3 + 8x - 4 = 10x + 15	57.	5								
	11x - 1 = 10x + 15	38.	25								
	x = 16	39.	9								
4.	Multiply both sides by 18: $(4 + 5) = 2(4 + 5) = 10$	40.	20								
	6(x + 7) - 3(x + 9) = 10	41.	8000								
	6x + 42 - 5x - 27 = 10	42.	15								
	3x + 15 - 10 3x - 5	43	30								
	$3\lambda = -3$ r = 5/3	чJ.	50								
5	x = -57.5 Multiply both sides by 4:	44.	50								
5.	2(x - 4) + 12 = x - 2	45.	39								
	x + 4 = -2	46.	65								
	x = -6	47.	130								
6.	(2, -3)	48.	39								
7.	(218)	49.	2√5								
8	(-11, 5)	50	$3\sqrt{5}$								
0.	(5,4)	50.	12/5								
9.	(-5, -4)	51.	413	1 10							
10.	(2, 1)	52.	Metho	11):	andah	alson a		م دام م	ماند <u>نم</u>		
11.	(-8/3, -5/3)		1 nere $2$	reon	andsh	akes a	imong	g the p	olitici	ans ar The	10
12.	-12, 36		$4x_3 - $	12 Det	ween j		nans a ∟ 12 –	na iav - 19	vyers.	The	
13.	0.6, 0.09		Metho	I II).	marcs	15 0 1	12 -	- 10.			
14.	$(2x-7)^2$		Let A.	в. С а	nd D l	be the	politi	cians.	Let X	, Y aı	nd
15.	$(3x-2)^2$		Z are t	ne law	yers. U	Jse th	e follo	wing	table	to lab	el
16	(20, -2) 49 $(4\chi + 7)^2$		all the l	nandsh	akes.	For e	xampl	e, "1"	mean	is the	
10.	$(\tau_{A}, \tau_{A}, \tau_{A})$		first ha	ndshał	ke is th	ne one	e betw	veen A	and 1	В.	
1/.	4, -2.4, -30		Anothe	r exan	nple, "	ʻ18" n	neans	the la	st han	dshak	e
18.	4, -48, 3		is the o	ne bet	ween	D and	1 Z. E	ach sh	naded	cell	L
19.	5, -40, 19		hotwoo	es ther	e is no	) hanc	isnake	e need	ed or	repea	ea
20.	9, -18, 30			A	B	<u>C</u>	D	x	V	7	1
21.	2, 8, 11		Α	11	1	2	3	4	5	6	-
22.	2, 24, 10		B		1	7	8	9	10	11	•
23	32 -112 4		C			'	12	13	14	15	ł
24	2 1 2 10		D				12	16	17	18	
27.	2, 1.2, 10		X					10		10	
25.	27, 54, 17		Y								
26.	75, -120, 30		Z								
27.	4√2			1		1		I	I		1
28.	3√13	53.	84÷2 =	42							
29.	4√10		$42 \times \frac{2}{2}$	= 12	in (wi	dth)					
30	6√5		$42 \times \frac{2+5}{5}$	= 30 ÷	n (len	oth)					
50.			2+5	- 501		501)					
31.	9 13		12×30	= 360	1112						
32.	16	54.	$\frac{3}{10}$								
			10								

## 280+

## MAP 280 (T2) Issue 3

55. 
$$\frac{7}{10}$$

56. 
$$\frac{3}{7}$$

57.  $\frac{7}{3}$ 

- 58.  $24 \div 60 = \frac{2}{5}$
- 59. 32.50÷0.65 = \$50
- 60. 21 ft and 42 ft
- 61. There are 11 letters in total. There are 4 letters of 's'. The chance of getting a 's' is <sup>4</sup>/<sub>11</sub>.
- 62.  $\frac{4}{11}$
- 63.  $3 \times 9 = 27$  different paths
- 64. Assume he got x points for his lowest grade, so the highest one is 3x 9.
  - x + 3x 9 = 135
  - 4x = 144x = 36

$$3x - 9 = 99$$
 points (highest)

- 65. Assume the angle is  $x^{\circ}$ . Its complement is 90-*x*. x + 3(90-x) = 202 270-2x = 202 68 = 2x
  - *x* = 34

66.  $1 - \frac{1}{3} = \frac{2}{3}$ 

 $\frac{1}{3} \div \frac{2}{3} = \frac{1}{2}$  (ratio between used gas and un-used gas)  $\frac{1}{2} \times 8 = 4$  gallons

- 67. 110 + 75 + 315 = 500110 + 75 = 185 $185 \div 500 = 37\%$
- 68. 45 miles =  $45 \times 5820$  ft  $45 \times 5280 \times \frac{1}{60 \times 60} = 66$  ft per sec
- 69. Let x be amount invested at 10% and, therefore, x +250 at 15%.
  0.25x + 37.5 = 225
  0.25x = 187.5
  x = \$750 (at10%)
  x + 250 = \$1000 (at 15%)
- 70. Let *x* be the amount he saves.
  1.15*x* = 3,450 *x* = \$3000
- 71. Let *x*: the amount invested at 20% *x*+500: the amount at 25% 1.2*x* + 1.25(*x* + 500) = 3075
  - 2.45x + 625 = 3075
  - 2.45x = 2450
  - x = \$1000 (at 20%)
  - x + 500 = \$1500 (at 25%)