## The Incredibles and Friends

	1116 21102
	Algebra I Solutions
1.	Slope = 92-91 + 410-10 + 400 = 4
	Slope = $\frac{9}{2} - \frac{9}{1}$ $\frac{410 - 10}{309 - 9}$ $\frac{400}{300} = \frac{4}{3}$
2	14x-29=17x+16
the transfer of the state of th	-45=3x
	-15 = X
3	3 38
	2169 5 338= 132.2
	13 13 Y 338 = V132-2
η.	V 338 = 135
4.	$\frac{729}{115} = \frac{3}{\sqrt{23}} = 13$
	13-13-13
77	8x+64 = 3x+89
	5x 415
1	x = 3 Only 3, fits the inequality.
. 6	· (-127) + (-126) + (-125) + · · · + /25 + /26 + /27
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	All the regative numbers have an 'equal but opposite number is
7	to cancel out. The sum is thus, zero.
	(x-15)(x+10)
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	X=15, 10 We want the positive "x", so 15 yards.
TOTAL SERVICE	
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(8x+7) (4x-5) Foil 32x2-40x +28x -35 32 x2-12x -35 32-12-35 = -15 The degree of a polynomial is equivalent to the highest power on the polynomial. Thus the answer is T. 10. y=21x+41 y=3x+5 To fad the whersection we make equations equal to each other so: 21x+41=3x+5 18 x = -34 To find the y-value of the intersection, plug in x = -2 in one of the equations: y=3xt5.3(-2)t5=-1 The intersection pant is (-2, -1). Abscissa means "x" and ordinate means "y". Thus, x+y=-2+(-1)=-3. The intended average is 90. So: 84 +99 +78+93+90+x = 90. With simple calculation, 'x' becomes The length of A to B is 250 miles. So on the way to B Kelsey goes (250-100) mph. So it takes her 250 hrs or 3 hrs. On the way back, she gos (250+100) mgh. So it takes her 250 hrs on the way back, or 5 hrs. So, 5+5 = 51 hrs or approx. 1.4 hs.

13.	The positive primes less than 36 are:
	2,3,5,7, 11, 13, 17, 19, 23, 29, 31
	There are Il numbers.
14.	To find a multiple of 3, add the digits of the numbers
å	and divide by 3. If there is no remainder, it is in fact
	a multiple of 3.
	For the number 9876543210: 9+8+7+6+5+4+3+2+1+0=45,
	which is a multiple of 3. So 987654340 is a multiple of 3.
15	y=7x+9
	-9=7x-y
	7x-y=-9
16	$4x^2+64=128$
	$4x^2 = 64$
	x <sup>2</sup> =16
	X= ±4 or 2-4,4}
17	d= 7(1/2+1)2+(9-41)2.
	d= V(11-4)2+(62-38)2
	d= V625
	d= 25 units
18.	$(2^{10}-4)=(2^{10}-2^2)$
	Using the property a2-b2= (a-b)(a+b)
. 0	$(2^{5}-2)(2^{5}+2)=(30)(34)=1020$
7	$y = number of Pooks$ $y = \frac{k}{x}$
	X = number of Incedibles
	It is given that y=50, x=2. 50= k = 100
	So y = 100 and x=10,50 y= 100=10 Dooks.

20. 431, 432, 433, 1343, 1344, 1345 -430 430 430 430 430 1 , 2 , 3 , ... 913 , 914 , 915 So 915 cups. 21 4x+19=83 4x = 64 x = 16 cups. By definition, slopes that are perpendicular are negative reciprocals of each other. Thus,  $-\frac{A}{B} \cdot \frac{B}{A} = -1$ .

1+1+2+3+5+8+13+21+34+55=143. 23. Gincles = .5 feet He is 35 feet away, so it will take him is seet = 350 sec. 24 25 The volume of the cube is 8 feet x 4 feet x5 feet = 160 ft? So we can fit  $\frac{160 \text{ ft}^3}{9 \text{ ft}^3} = 4.5 \text{ Mn In credibles.}$ 7 Mr. Incredible 26. The volume of the cube is 53 ft or 125 ft? If Folia reported a volume 25 ft3 greater, then she reported (125+25) ft3= 150 ft3. 27 32= 34=81 25x = 35 > 2x=3 29. The different combinations is the product of all possible jackets, paints, and socks. So 4 x 8x9 = 288 combinations. 30 -12 is -144 because the negative is not put under Parenthesis