

•					
		80x + 120 < 1200	12 < 3x + 6 < 36	$45 \le 9x - 36 \le 81$	
				Write the interval for	
		maximum value oi	12 < 3 × +6	X.	
8x + 25	> 620 )-2	x.	6 < 3 2	45 5 9x - 36 )+	
		180x+120<1200	2 < oc Landk	181 59x	
02	775)	80x < 1180	Bx +6 < 36 =9	9 9 5 x X=1	
$\chi$ 7 74	-313	-9n ( ~ < 14.75	32 < 30	976-36581 94	
		.00 - 14 15	2<10	9x 5 117	
Fin	d s	• Find v	Is (2,-7) on the line	The surface area of a	
	1	v=u+at		ball is $4\pi r^2$ .	
s = ut	$+\frac{1}{2}at^{2}$	u=2 t=45 a=7		How much leather is	
u=	=2	V-2+(7x45)	$(2-2)^2 + (-7+2)^2 - 16$	needed for a ball of	
t=	40	2 2 1		diameter 34cm?	
a=	=7	2) 215	02 + - 42 = 16	34-2=17	
S=(2×40)	+( 2×7×4	0) = 24 313		4xTTx172=	
			So yes it is	3631.6811080	
				1	
				$\left(\sqrt{a^2+b^2}\right)^4$	
182712 120		The same of the sa		6.14	
= 3820 77		42 8x2 + 127c	3x 9x2 + 24x	(a+b)	
18x+12+20x-8 = $38x+4$		-7 -14x -21	+8 +24x +64		
		8-2-2-21	92c2   +48x   +64		
Aigebraic			6x 54x3 288 x2 384x		
			9		
80 an	d 100	20 and 30	68 and 89	260 and 290	
92 67 6	20 01				
83, 87, 89, 97		23, 29	71,73,79,83	263, 269, 271	
			87,89	271, 281, 283	
Family	Frequency	The mean family	Shoe size Frequency	The mean shoe size	
size		size for another	8 3	for another 35 people	
3	4	group of 24 people	9 17	is 12.4. Find the mean	
4	11	is 2.25. Work out	10 14	when both groups are	
5	6	the mean for both	11 13	combined	
	2	groups of people	12 4	12.4×35	
6	3				
3×4)+(4×11)	)+(6×5)+(6x	in artificiant for a toler or	24 + 153 + 140 + 143 + 48	= 434	
	Calculate the value $8x + 25$ $8x + 25$ $8x + 25$ $8x + 25$ Fin $s = ut$ $u = t = a = 5 = (2 \times 40)$ $= 80 + 5$ $6(3x + 2) + 18x + 12$ $= 38x$ 80 an 83, 87, 8		Calculate the minimum value of x. $8x + 25 > 620$ ) -25 $8x > 595$ ) -3 $x > 74 \cdot 375$ Find s $s = ut + \frac{1}{2}at^2$ u=2 $t = 40$ a=7 $5 = (2 \times 40) + (\frac{1}{2} \times 7 \times 40^2) = 2 + 315$ $= 80 + 5600 = 5680$ $= 317$ $6(3x + 2) + 4(5x - 2)$ (2x + 3)(4x - 7) $18x + 12 + 20x - 8$ $= 38x + 4$ Family Frequency size $12x + 36x + 120 < 1200$ $120x + 1200$ $120x +$	Calculate the minimum value of x. $8x + 25 > 620$ ) -25 $8x > 595$ ) $19$ $80x + 120 < 120$ $2 < x   $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x  $ 2 $2 < x $	

$$= \frac{104}{24} = 4\frac{1}{3}$$

www.achildsguideto.com

$$5)$$
  $508 = 9.960784314$   $51$ 

434+508 = 942 51+35 = 86

942 = 10.95...

Factorise	$(4x - 25)^{2}$ $((2x - 5)(2x + 5))^{2}$ $(5x^{2} - 260)(4x + 25)$ $(6x^{2} - 260)(4x + 625)$	$x^{2}y^{4} - 16x^{6})^{2}$ $xy^{2} + 4x^{3}$ $5xy^{2} - 4x^{3}$	Write 84 as a product of prime factors		HCF(24,96)	HCF(85,: HCF(12,:	Test let let let let let let let let let le
Inequalities =, <, >	$\frac{17}{5}$ $<$ $3\frac{2}{3}$	\$\frac{4}{5} \ of 35 < 28	2 <sup>5</sup> 32	$\sqrt{\frac{16}{25}} > \frac{4}{5}$	3 4	(\sqrt{64}) <sup>4</sup> \\ \text{4096}	= 2 <sup>12</sup> 4096
Exchange Rates £1:\$1.29	item?  3 pairs of socks in the UK for £4.80 or 5 pairs of socks in the US for \$8.20?  4.90 × 1.29 = 6.192  6.192 ÷ 3 = 2.064  8.20 ÷ 5 = 1.64  David plants orange trees and lemon trees in the ratio 5:3. He plants 15 lemon trees. How many orange trees does he plant?		K for £64 or S for \$126? / Junger Junger USA	cars are sold in the lue cars are sold than r costs £16,500, how paid for the cars ether?  3+7=10  Green cultimes as r on red to minimum cubes ass two of each lead.		bes cost £30. Red cubes cost $1\frac{1}{2}$ much. The ratio of money spent green cubes is 3:1. What is the amount of money spent on suming that there was at least ach colour?	
Ratio			27. 20 more bloom es. If each can uch money is altogether.  3 = 4				
Draw a scattergraph	negative correlation		positive c	orrelation		no correlation	

	The probability of Zach wir Complete the probability t		.35. The p	probability that he	will win a	at fives and threes is 0.4.
		5s and 3s				
	Chess	0.4	win	What are the chances of Zach winning at both games?		
	6.35			0.35 × 0	. 4 =	0.14
Probability	win	0.6	lose			
Pr				What are to game and		es of Zach winning one e other?
		0.4	win			
	lose			0.35 x	0.6	= 0.21
	1030					+
	0.65			0.65 x	0.4	= 0.26
			lose			0.47
		0.6			430	
	Write these numbers in standard form.	Write these numbers in standard form.		Write these num standard for		Write these numbers in standard form.
tandard form	12	1293.392		6		0.007
Stan	1.2 x 10	1-293392 × 103		6 x 10°		7 x 10 -3
	Write these numbers in ordina	hese numbe	ers in ordinary form.	Write th	ese numbers in ordinary form.	
y form	$7 \times 10^{0}$		$8.937 \times 10^{-4}$ $3.938 \times 1$		$3.938 \times 10^4$	
Ordinary	7		0.0008937		39,380	