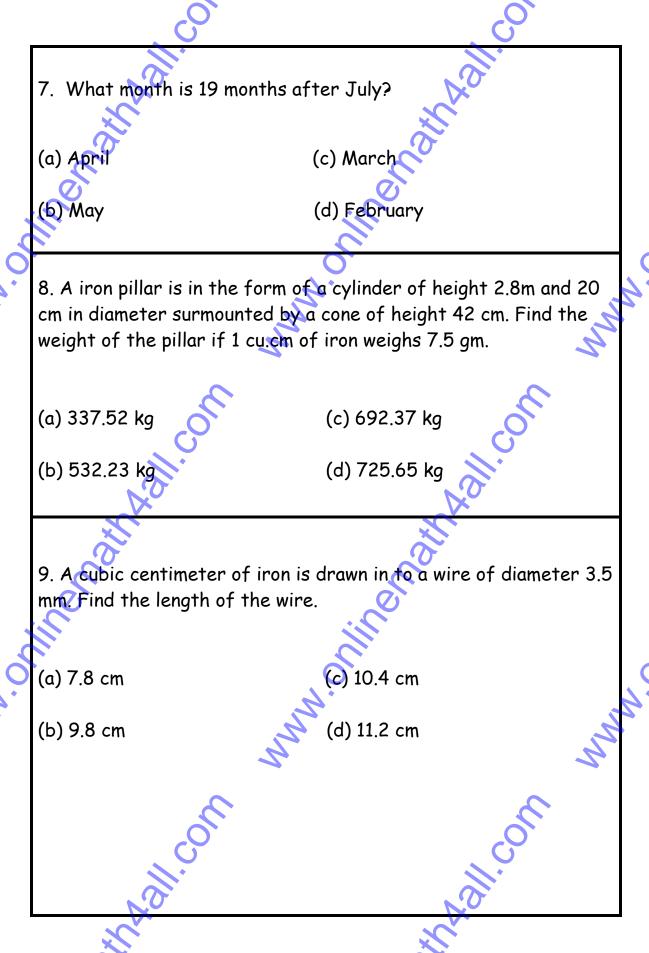
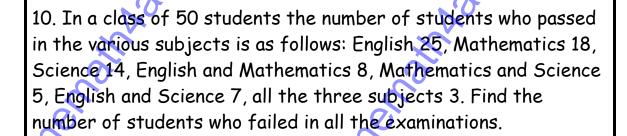


	4. A rubber ball dropped from the height of 50 m rebounds at every impact from the floor to a height half of that from which it has fallen. Find the total distance described by the time it comes to rest. (a) 90 m (b) 150 m (d) 85 m	
Ny	5. A G.P consists of even number of terms. The sum of all the terms is three times that of the odd terms. Find the common ratio.	
	(a) 2 (c) 4 (d) 5 (d) 5	Olinor
Why Co.		0.00
	(a) \$1885 (b) \$1785 (d) \$2085	





(a) 10

MM (6) 8

(b) 9

(a) (A-B) u (A-C

(c) (AuB) - (AuC)

(b) (A-B) n (A-C)

(d) (AnB) u (AnB)

12. What type of relation R defined by $R = \{(-1,2), (2,-1), (-1,$ (2,2), (3,3)} on A = {-1,2,3}.

(a) Reflexive

(c) Symmetric

(b) Equivalence

(d) Transitive

13. In a shop three persons A, B and C	purchased the following
quantities of rice, wheat and sugar.	*(C,

9	100/11110011 0111011	- agai	
0	Rice (Kg)	Wheat(Kg)	Sugar(Kg)
Α	3	2	4
В	2	3	2
C	4	5	4

If they have paid respectively \$140, \$104 and \$196 for the purchases made, find the cost of 1 kg of rice, wheat and sugar.

(a) \$20, \$12, \$14

(c) \$22, \$19, \$14

(b) \$20, \$15, \$16

Sustain Colli

(d) \$20, \$18, \$14

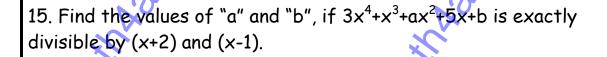
14. Find the remainder when $6x^4-11x^3+5x^2-7x+9$ is divided by 2x-3.

(a) O

(c) 1

(b) 2

(d) 3



$$(a)(a) = 7, b = 2$$

(d)
$$a = 7, b = -2$$

16. Find the G.C.D of the following polynomials $x^3-9x^2+23x-15$ and $4x^2-16x+12$.

(a)
$$x^2 + 4x - 3$$

(c)
$$x^2-4x+3$$

(b)
$$x^2-4x-3$$

(d)
$$x^2+4x+3$$

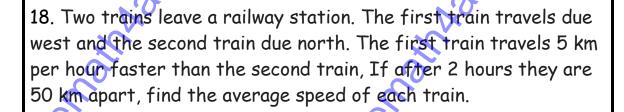
17. Find the values of "a" and "b" in the following, given that the polynomial are perfect squares.

$$9x^4 + 12x^3 + 40x^2 + ax + b$$

(a)
$$a = 24$$
, $b = 36$

(b)
$$a = 36$$
, $b = 24$

(d)
$$a = -36$$
, $b = 24$



(a) 22, 28

(c) 12, 18

(b) 20, 15

(d) 12, 30

19. Determine the nature of the roots of the equation $x^2-11x-30=0$.

- (a) Real, Egual, Irrational
- (c) Real, Unequal, Rational
- (b) Real Unequal, Irrational
- (d) Imaginary

20 Form the equation whose roots are $(5+\sqrt{3})$ and $(5-\sqrt{3})$.

(a)
$$x^2+24x-5=0$$

(c)
$$x^2$$
-44x+3=0

(b)
$$x^2$$
-32x+14=0

(d)
$$x^2-10x+22=0$$

	21. How n	nany to	ingents	s can b	e draw	ın at aı	ny poin	t on th	ne circ	le?
	(a) 3				(c) 1				
	(b) 2				(d					
MMM.	22. <i>A</i> pro	ject ho	as the	follow	ing tim	e sche	dule			7
	Activity	1-2	1-6	2-3	2-4	3-5	4-5	6-7	5-8	7-
	Duration	7	6	14	5	11	7	11	4	18

22. A project has the following time schedule

Activity	1-2	1-6	2-3	2-4	3-5	4-5	6-7	5-8	7-8
Duration	7	6	14	5	11	7	11	4	18
in days		O,						D'	

(a) 43

(c) 36

(b) 38

(d) 21

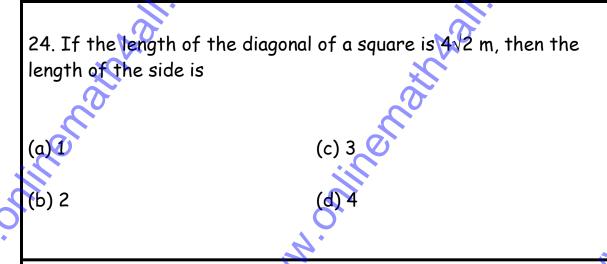
23. Chords AB and CD cut at P out side the circle such that PC=15, CD=7, PA=12 find AB.

(a) 2

(c) 4

(b) 3

(d) 5



(a)1

(b) 2 25. Find the point which divides the line segment (-3,-4) and (-8,7) internally in the ratio 7:5.

(a) (-71/12, 19/12)

(c) (-71/12, 29/12)

(b) (-71/12/39/12)

(d) (-71/12, 49/12)

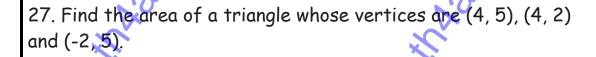
26 The centroid of the triangle ABC is (3, -2). Find the vertex C if A and B are (1,-2) and (7,4) respectively.

(a) (-1,-8)

(c) (-1,8)

(b) (1,-8)

(d) (1,8)



(a) 9 sq. units

(c) 7 sq. units

(b) 8 sq. units

(d) 6 sq. units

28. The vertices of a triangle ABC are A(-2, 8), B(1, 2) and C(7,-8). Find the equation of the medial through A.

(a) 11x-6y+26 =0

(c) 11x+6y-26 =0

(b) 11x+6y+26 =0

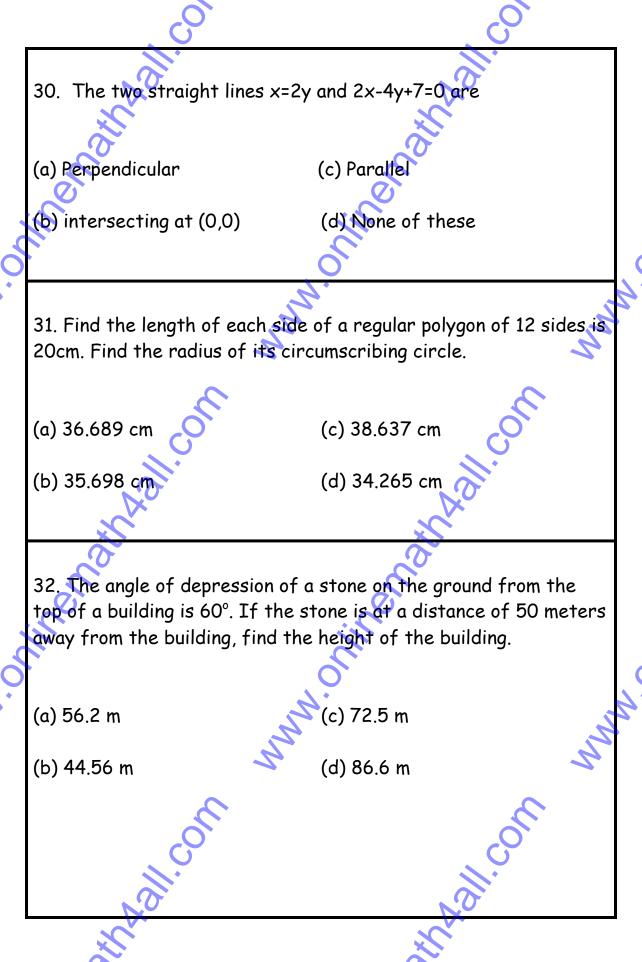
(d) 11x-6y-26 =0

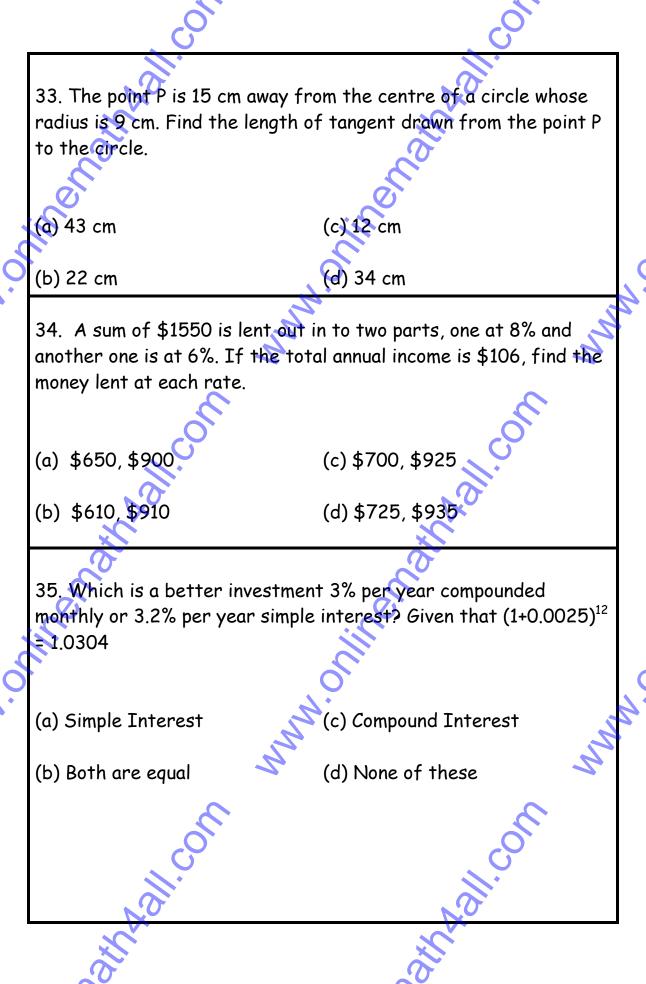
29 If the straight line 7x-5y=k passes through the point (1,1), what is k?

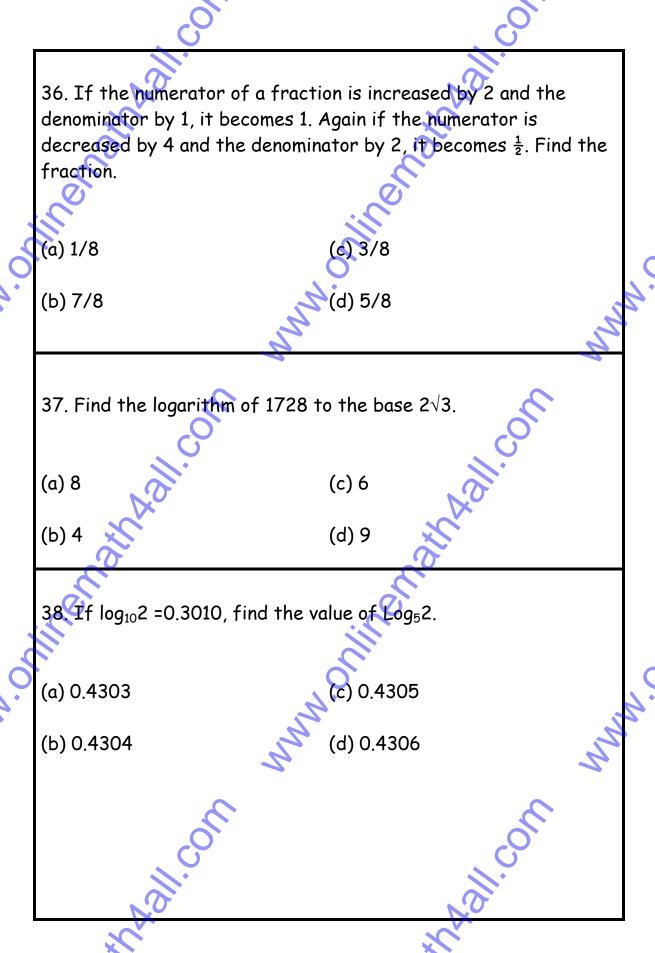
(a) 1

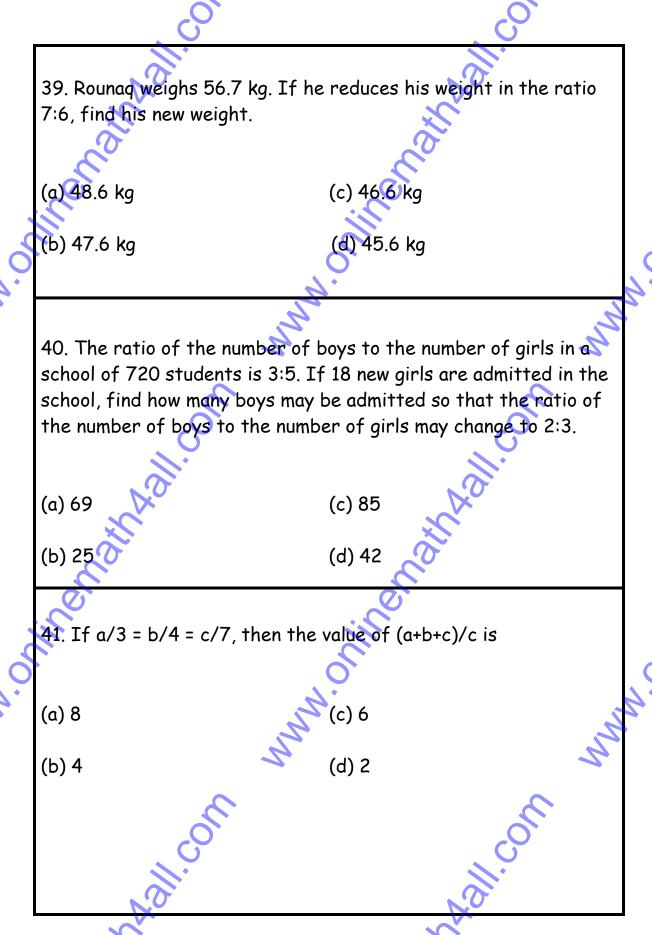
(b) 2

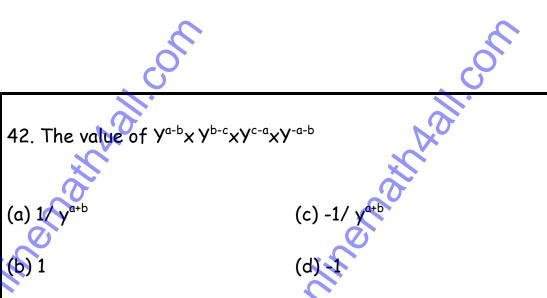
1111 (c) 5 (d) 4











(a) 1/ y^{a+b}
(b) 1 43. A dealer sold three-fourth of his articles at a gain of 20% and the remaining at cost price. Find the gain earned by him in the whole transaction.

(a) 14.5%

(c) 15.5%

(b) 15%

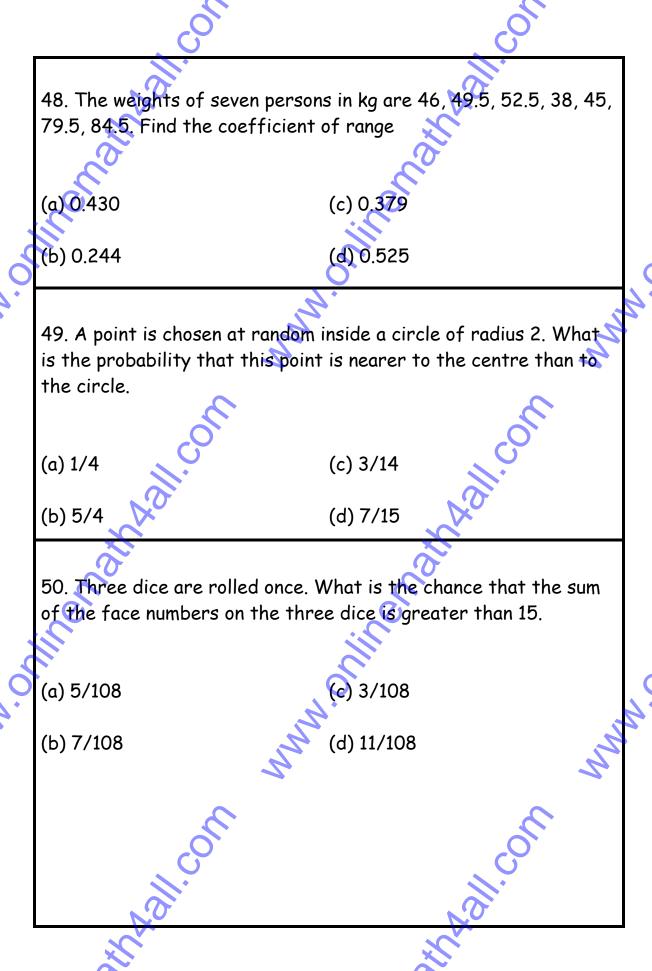
(d) 16%

44. By selling an article, Michael earned a profit equal to onefourth of the price he bought it. If he sold it for \$375, what was the cost price.

(a) \$300

(b) \$363

		COM			on	
	45. A man has more of his fri			ways can he	invite one or	
	(a) 13		(c) 86			
70	(b) 5		(d) 31			A. Olifold
MAN.	46. Find the nu playing cards.	mber of diff	erent poker	hands in a pa	ck of 52	7
	(a) 2598958	COLL	(0	c) 2598960	On	
	(b) 2598959		(0	1) 2598961		
	47. Find the H	larmonic mea	n for the fol	lowing data.		
•	X 2		4 3	3	16 2	iil
MAN,	(a) 2.74		(c) 4.44 (d) 2.82	1	7	M. Clinor
N	(b) 3.38	\$	(d) 2.82	2	n	
		COUL			000	
	700	,		No.		
	a los			Co		



		· cos				on		
	Answers	No.			XX			
	1. a	2. c	3. d	4. b	5. a 11. b 17. a 23. a	6. b		On
Munico	7. d	8. c	9. c	10. a	11. b	12. b	Ċ	
hun	13. a	14. d	15. c	16. c	17. a	18. b	M	
		20. d	21. c	22. c	23. α	24 . d		
	25. c	26. b	27. a	28. c	29. b	30. c		
	31. c	32. d	33. c	34. a	3 5. a	36. b		9
Mulion	37 . c	38. d	39. a	40. d	35. a 41. d 47. c	42. a		
Thy.	43. b	44. a	45. d	46. c	47. c	48. c	NA	
7	49. a	50. a					7	
	70%	50. a		<i>ب</i> ر				7,