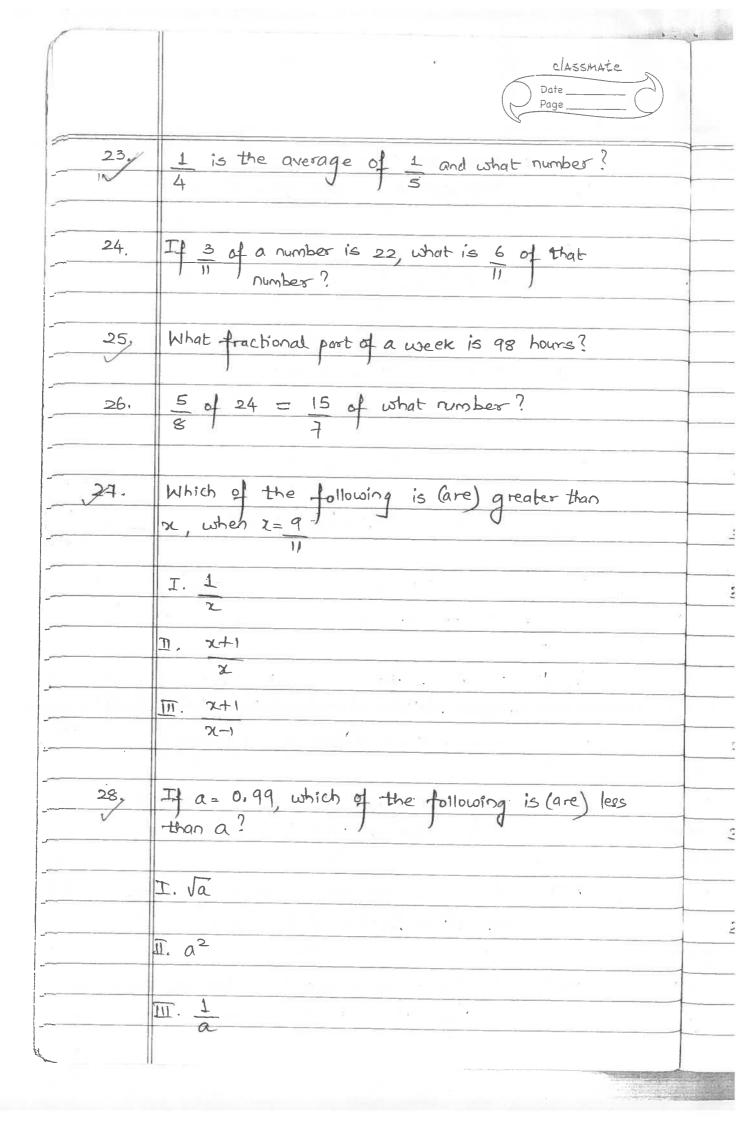
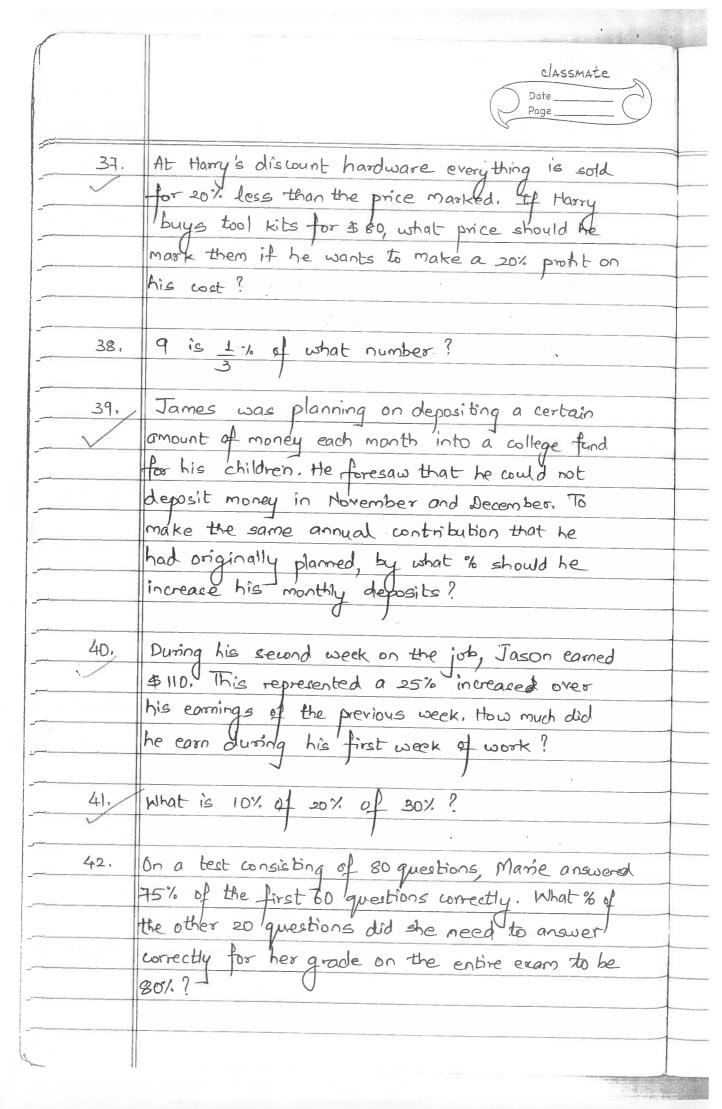
SSMATE		Basic Arithmetic Concepts Date Page
		·
	_Q1>.	For how many positive integers, a, is it true that a < 2a?
	<i>≥</i> },	If 0 <a<b<1, (are)="" following="" is="" of="" td="" the="" true?<="" which=""></a<b<1,>
	3	> a-b is -ve 2> 1 is the 3> 1-1 is the
	<i>y</i> ,	If a and b' are negative, and 'c' is positive, which of the following is (are) true
	-	I. $a-b < a-c$ II. if $a < b$ , then $a < \frac{b}{c}$
		II. 1 < 1
		At 3:00 am the temperature was 13° below zero, By noon, it had risen to 32°c. What was the average hourly increase in temperature?
	5)	If $(7^a)(7^b) = 7^c$ , what is d'in terms of a,b, and c?
	6),	If p'and q' are primes greater than 2, which of the following must be true?
		I. ptq is even  Pq is odd  I. p=q2 is even
		p-9 15 even

classmate re ge nibion.		classmate  Date Page
ts the		many times during the next hour will both begrers beep at the same time?
350	14.	If $-7 \le x \le 7$ and $0 \le y \le 12$ , what is the greatest possible value of $y - x$ ?
	15,	If an integer less than 1,000 that has a remainder of 1 when it is divided by 2, 3, 4, 5, 6, or 7, what is one possible value of x?
8×79)10?		What is the value of 24 = 2-4?
26.0	17.	What is the value of (-2-3) - (2-3)
gers the	18,	For any integer, a, greater than 1, let Tat be the greatest prime factor of a'. What is 11321?
x, the	19.	If the product of four consecutive integers is equal to one of the integers, what is the largest possible value of one of the integers?
opped		, , , , , , , , , , , , , , , , , , , ,
of meat	20,	If x and y are positive integers and (13x) y=1313, what is the average of x and y?
make them been	21,	A French class has 12 boys and 18 girls. Boys are what fraction of the class.
then beeps seconds.	22,	For how many integers, a, between 30 and 40 is it
time, has		true that 5 % and 13 are all in lowest terms?



A STATE OF THE PARTY OF THE PAR	STREET, STREET	The state of the s
classmate		
ite		classmate
ge		Date
mber?	29.	For the final step in a calculation, Paul accidentally
-, 1		divided by 1000 inches of an 1501 :
		divided by 1000 instead of multiplying by 1000, What should he do to correct his answer.
that		what should be do to correct his answer.
ride		
	30,	One day at Doon School, 1 of the students
		were absent, and I of those present went on
ins?		One day at Doon School, 1 of the students were absent, and 1 of those present went on a field trip. If 5 the number of students
		staying in school was 704, how many students are
		enrolled at Doon School?
		EARDITED UT NEW CORDI.
- 10	31.	What is a possible value of x' if 3 < 1 < 7?
r than		1 15 2 9
	32,	If 7a=3 and 3b=7, what is the value of a?
	33.	If A= {1,2,3}, B= {2,3,4} and c is the
	V	set consisting of all the fractions whose summerstance
		set consisting of all the fractions whose numerators are in 'A' and whose denominators are in 'B', what is
		are in a whose denominators are in B what is
		the product of all the numbers in c?
	34.	Charlie bought a \$60 radio on sale at 5% off. How
		Charlie bought a \$60 radio on sale at 5% off. How much did he pay, including 5% sales tax?
are) less		
	35/	TP 'a is a preitive cumber upor all a la late
		If a is a positive number, 400% of a is what percent of 400 a?
Ş.1		07 700 4
	36.	What percent of 50 is 5?

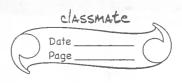


The second second second		
ASSMATE		classmate
		DatePage
		~
e sold	43.	A jar contains 2000 marbles, If 61.5% of
Harry		them are red, 27.2% of them are white, and 10%
1d Re		of them are blue, how many are neither red,
anotit on	,	I white, nor blue?
3		
	44.	If 25 students look an exam and 4 of them
		failed, what percent of them passed?
ertain	45.	There are twice as many girls as boys in
re fund		an English class. If 30% of the girls and 45%
lnot		of the boys have already handed in their book
5. To		reports, what % of the students have not yet
- he		handed in their reports?
1 he		J
	46.	During a sale a clerk was putting a new price
		tag on each item. On one radio, he accidentally
n earned		raised the price by 15% instead of lowering the
0162		price by 15th. As a result the price on the tag
ich did		was \$45 too high. What was the original
?		price, in dollars, of the radio?
j.		
	47.	If a person has an income of \$100,000, what %
		of his income does he pay in federal income
e answered		tax if the tax rate is as given below?
What % of		15% of the first 30,000 income
answer!		28% of the next 30,000 income
an to be		31% of all income in excess of 60,000
	1	

	classmate	
	Date Page	6
48.	The price of a can of soup was increased by 20%. How many cans can be purchased	
	for the amount of money that used to buy 300 cans?	
49,	An art dealer bought a painting for \$1000 and	
	Later sold it for \$10,000. By what % did the Value of the pointing increase?	
50,	For A has 20% more marbles than jar B. What	
	percent of the marbles in jor A have to be moved to jor B, in order that the number	
	of mastles in each jar will be some?	
51.	Werdy drew a square. She then ergsed it and drew a second square whose sides are	
	3 times the sides of the first square. The	
	area of the second square is K's greater.	
	than the area of the first square. Unlast is	
52.	In a large jas full of jelly beans, 30% of	
	them are red, and 40% of the red jelly beans are cherry. If 25% of the non-cherry flavored	
	red jelly beans are raspberry, what not all	6
	the jelly beans are either cherry or raspherry?	
		61

4 5		
ASSMATE		Dcte
°as ed	53.	It 2 of the workers in an office are non-smokers
hased		what is the ratio of smokers to non-smokers?
buy		
	54,	If 80% of the applicants to a program were
		rejected, what is the ratio of number accepted to
\$1000 and		number, rejected?
i'd the		
	55,	The measures of three angles in a triangle are in the
		ratio of 1:1:2. Which of the following must be true!
3. What		
be		I. The triangle is isoceles.
ber		II. The triangle is a right triangle.
		III. The triangle is equilateral.
ed it	56.	what is the valio of the circumference of a circle to
are.		its radius?
The		
er .	57.	If a:b=3:5 and a:c=5:7, what is the value of b:c?
tis		
	58.	If x is a positive number and $x = 12$ , then $x = \frac{1}{3}x$
5% of beans	59/	A snail can move i inches in m minutes. At this
beans	1 2 2	A snail can more i inches in m minutes. At this rate, how many feet con it move in h hours?
flavored	, ,	
all	60.	Barbara con grade t tests in 1 hours. At this
aspherry?		Barbara con grade t tests in 1 hours. At this rate, how many tests can she grade in x hours?
, \		
	61,	If 500 pounds of much will feed 20 pigs for a
		If 500 pounds of much will feed 20 pigs for a week for how many days will 200 pounds of much

L'ASSMATE te		classinate  Date
	(a) <u>Ctd</u> (b) <u>3(ctd)</u>	
this		10
12 mins?	(c) ctd (d) 3(c-	(d)
also of		
	ce) c+d.	
7 2?	69. What is the average of	210 and 220?
ofit in	(a) 2 <sup>15</sup> (b) 2 <sup>5</sup> + 2 <sup>10</sup>	(c) 29 + 219
3,000,	29	
rgest	(d) 2 <sup>2</sup> (e) 30.	
	70. Let M be the median, and	m the mode,
2 when	of the following set of no	s. 10, 70, 20, 40,
1 X=5?	70,90. What is the a	verage of M and
i four		
on no more	71. The average weight of the French Club is 150 pounds	students in the
the least	Fronch Club is 150 pounds	, and the
and still	average weight of the stu	
age after	Spanish Club is 130 pounds Is a member of both clubs,	if the average
	weight of all the students	
llowing is	and if there are 30 mes	mbers in the
	French club, how many me	mbers are there
	in the Spanish club?	
AND THE R. L.		



Ala	eb	ra	٠
7			•

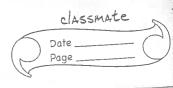
J.	If	02-6-21	and	$a^2$	+6=	29	what	could	be
		possible							

- 2. What is the average of  $x^2 + 2x 3$ ,  $3x^2 2x 3$  and  $30 4x^2$ ?
- 3. If  $a^2+b^2=4$  and  $(a-b)^2=2$ , what is the value of ab?
- 4. If  $\frac{1}{a}$ ,  $\frac{1}{b}$  = 1 and ab = c, what is the

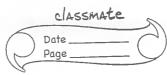
average of 'a' and b'?

- 5.  $\chi^3 + 3\chi^2 = 10\chi$  is equivalent to  $2\chi^2 = 8$
- 6. What is the value of a=b2 when a=17.9 and b=19.7?
- 7. If  $x^2y^2 = 28$  and x y = 8, what is the average of x and y?
- 8. If  $\left(\frac{1}{a} + a\right)^2 = 100$ , what is the value of

 $\frac{1}{a^2} + a^2$ ?

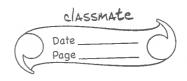


Maria and Maria		CIASSMALE
	1	DatePage
		133
	1	
	-	fax-b=c-dx, what is the value of x in terms of a, b, c & d?
10	).   I	f az -b= c-az, conta
		in terms of a, b, c x a:
		23 what is the value
1	1.   .	1 x + 1 x + 1 x = 3 + 2
		$\frac{1}{3} \frac{1}{6} \frac{1}{9} \frac{1}{9} \frac{1}{9} \frac{1}{4} \frac{1}{2} \frac{1}$
		If 7-252 = 14, what is the value of x?
	12.	TP 7-202 = 14, 00,(x)
		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	-	If 32 = 16 then 'a' in terms of b?
	13.	
		p = 1/h is less than
	14.	If the average of 3a and 4b is less than
		and a is wice o,
		30, and cyclus of a?
		largest integer value of a?
		V
		If $\frac{1}{a-b} = 5$ , then $a = ?$
	15.	
1		, 4-6
		TD ~= 30+7 and y=9a2 what is 4 in
	16-	2
		If $x = 3a + 7$ and $y = 9a^2$ what is y in terms of $x$ ?
		1 0 colution of 3/2+1/-5=2 is .
1	17.	A solution of 3/2+1/-5=2 is?
		1 - 107
	18.	If 72+10=44, what is the value of 7x-10?
	10.	
1		the value of x?
	19.	If $x^{-3} = 1$ what is the
1	1	If $x^{-3} = 1$ what is the value of $x^{-2}$ .
		If x2+3 < 4 and 2x2+3 > 4, what is one possible value of a?
	20.	71 x + 3 4 4 and 22 + 3 ,
		lone possible value of a!
		)
7		



	Page
21.	In the afternoon, Judy read 100 pages @  60 pages per hour, in the evening she read another 100 pages @ 40 pages per hour. In  pages per hour, what was her average rate of reading for the day?
22.	If the sum of five consecutive integers is B what is the largest of those integers in terms of 3?
23.	A jar contains only red, white and blue marbles.  The number of red marbles is 4 the number of white ones is  white ones and the number of white ones is  3 the number of blue ones. If there are 470  4 marbles in all, how many of them are  blue?
24.	A stall was selling two types of condy: lollipops at 40 cents each and chocalate bars at 75  cents each. On Monday, the members sold 150  cardies and raised 74 dollars. How many  lollipops did they sell?
25.	On a certain project the only grades awarded  were 75 and 100. If 85 students completed  the project and the average of their grades  was 85, how many carried 100?

	classmate
	Oute
1	Page
26.	Aaron has 3 times as much money as Josh.
	If Aaron gives Josh \$50, Josh will then
	have 3 times as much money as Aaron.
	How much money do the two of them have
	together?
27.	If 1x years ago Jason was 12, and  2 1 mars from now he will be
	1 2 1x years from now he will be
	1 2 1 x years from now he will be  2x years 2 old how old will be 3x years
	from now?
28.	Two printing presses working together
	can complete a job in 2.5 hours. Working
	alone, press A' can do the job in 10 hours.
	How many hours will press B' take to do
	the job (by itself?
29.	What is the greater of two numbers whose
and the same of th	product is 1900, if the sum of the two
	numbers exceed their difference by 30?
30.	The number of shells in Fred's collection is
	80% of the number in Phil's cotlection. If
	Phil has 80 more shells than Fred, how
and the second s	many do they have altogether?



	Karen played a gome several times, she
31.	received \$5 every time she woon and had to
	pay \$2 every time she lost. If the ratio
	of the number of times she won to the number
	of times she lost was 3:2 and if she won
	a total of \$66, how many times did she play
	this game?
	The state of the s

22. Each of the 10 players on the basketball team shot 100 free throws, and the average number of baskets made was 75. When the highest and lowest scores were diminated, the average number of baskets for the remaining 8 players was 79. What is the smallest 1 number of baskets anyone could have made?

pratap.iyer30@gmail.com