SERVISS

MPM 1	1DI:	Ratio,	Rates	and	Prope	ortions
-------	------	--------	-------	-----	-------	---------

1.	Sin	nplify the following ratios:							
	a)	4:12	b)	15:10	c)	24:60		d)	40:100
	e)	27:45	f)	21:63	g)	48:234		h)	18:36:60
	i)	27:63:108	j)	0.5:3.2	k)	0.75:0.9		l)	$\frac{2}{3}:\frac{3}{4}$
2.	Sta a)	te 2 equivalent ratios for: 7:9		b) 8:24			c)	25:	15
3.	Exp (<i>Re</i> a)	press, in <u>simplest</u> form, a ra member: $1 m = 100 cm$ 15 cm to 35 cm	tio fo 1 n b)	for each of the following: n = 1000 mm $1 cm = 105 m$ to 26 cm	mm C)) 8 cm to 100 mm		d)	1 m to 5 mm
	e) i)	40 min to 50 min 2 mm to 30 cm to 4 m	f)	18 min to 1 hour	g)	3 yrs to 15 months		h)	300 m to 6 km
4.	Exp	press each of the following	as <u>ra</u>	ates:					
	a)	480 m in 5 sec	b)	\$250 for 20 hrs	c)	72 kg for \$2.40		d)	65 cm in $2\frac{1}{2}$ min
	e)	504 words in 6 min	f)	864 km in $2\frac{1}{4}$ hrs					_
5.	The a) b)	ere are 5 dimes, 10 quarters What is the ratio of nickel What is the ratio of the <u>va</u>	and s to l <u>lue</u> o	15 nickels in my wallet. dimes to quarters? of the dimes to the <u>value</u> of	the	quarters to the <u>value</u> o	of the	nick	els?
6.	Fin	d the unknown value in eac	h of	the following proportions:					
	a)	$\frac{a}{50} = \frac{12}{100}$	b)	$\frac{25}{b} = \frac{5}{4}$	c)	$\frac{16}{40} = \frac{c}{10}$		d)	$\frac{5}{12} = \frac{45}{d}$
	e)	$\frac{2}{5} = \frac{e}{6}$	f)	$\frac{f}{20} = \frac{56}{50}$	g)	15:7 = g:21		h)	12:8 = 30: <i>h</i>
	i)	7:4 = x:6	j)	2:3:4 = 8:x:y	k)	5: <i>x</i> :15 = 10:20: <i>y</i>		l)	33:12:x = y:8:20

7. If the area of a square 25 cm^2 , what is the ratio of its sides?

8. The ratio of the lengths of two squares is 3:4. What is the ratio of their areas?

						91-6	.8			1-1	۲.
x=30,y=22	Ú	0£=10°N=30	(भ	21=Y-21=x	(ţ	<u>71</u>	(i	50	(મ	57	(3
211 115	Û	<u>5</u> 13	(ə	801	(p	4	(ə	50	(q	9	(e g
								2:10:3	(q	\$-1-£	(e ç
મ/માગ્ર †8દ	(J	nim/sbrow 48	(ə	nim/mə 82	(p	\$/\$¥ 0E	(ə	4/0571\$	(q	s/m 96	(B \$
						1-120-3000	(i	1 - 30	(મ	13:5	(3
01:E	Û	4:5	(ə	1=00Z	(P	4:5	(ə	520°13	(q	7:E	(B E
6-3	Ú	9° S	(भ	25:32	Ç	317712	(i	3:6:10	(મ	68-3	(3
£=1	Û	3:5	(ə	5-2	q) AEBS	S-Z	(ə	2-E	(q	£=1	(s I

NAME: _____