Ste	d : 9	Mental	Maths C	Competition [®]	1
	SECTIO	N 1	8.	The bridge A	is 3.728 km
(1	Iental Maths	Calculation)		and bridge B	is 2.57 km
	7			long. Find dif	ference
1.	$\frac{7}{25} =$			between their	lengths.
	(a) 0.140	(b) 0.280		(a) 1.752 km	(b) 0.862 km
	(c) 0.128	(d) 0.144		(c) 1.158 km	(d) 0.792 km
	(0) 0.120	(a) 0.1 11	9.	\% of 80	= 56
2.	32 × 25 × 9 =	=		(a) 50	(b) 60
	(a) 7280	(b) 7570		(c) 90	(d) 70
	(c) 7200	(d) 7460			2
3.	Average of 36	5, 52, 47, 38, 29,	10.	How do you v	vrite $\frac{3}{25}$ as
	56 is	_		percentage.	
	(a) 43	(b) 41		(a) 24%	(b) 18%
	(c) 45	(d) 39		(c) 12%	(d) 21%
4.	The L.C.M. of	f two number	11.	What is a cul	be of 21
	is 24. If one o	of the number		(a) 8641	(b) 9161
	is 8 then the	other number		(c) 8901	(d) 9261
	is		12.	187 + 83 = 30) × 🗌
	(a) 6	(b) 4		(a) 9	(b) 10
	(c) 7	(d) 16		(c) 7	(d) 8
5.	1008 ² =		13.	By what leng	th 41.3 km is
	(a) 1016016	(b) 1016064		longer than 3	$7\frac{1}{1}$ 1mm
	(c) 1064016	(d) 1064064		longer than 5	$\frac{1}{2}$ KIII
6	874 ² =			(a) 2.8 km	(b) 3.8 km
6.		(h) 70027 <i>(</i>		(c) 3.2 km	(d) 2.2 km
	(a) 752376 (c) 763876	(b) 729376 (d) 738876	14.	Which of thes	se numbers is
	(C) 103010	(u) / 300/ U		multiple of 18	8 & 24
7.	$\sqrt{0.0144} = -$			both	
	(a) 1.2	(b) 0.012		(a) 72	(b) 48
	(c) 0.00012	(d) 0.12		(c) 96	(d) 36

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15.	$30 \times 2\frac{1}{3} = \square$		22.	288 km/h = _	m/s
	(a) 60	(b) 90		(a) 70	(b) 60
	(c) 70	(d) 80		(c) 80	(d) 90
6.	9 ³ – 9 ² =]	23.	(32) + (-7) × (5)	× (4) =
	(a) 648	(b) 598		(a) –98	(b) 98
	(c) 708	(d) 628		(c) –108	(d) 108
L 7.	The sum of	two integers is 3	24.	24 : 3 :: x : 2	
	If one is –8, find the other.			Value of x is	
	(a) –5	(b) 11		(a) 16	(b) 14
	(c) -11	(d) 5		(c) 12	(d) 18
18.	If $x = 3$, $y = 4$	4	25.	When a numb	er is reduced
	$(-y)^{x} + (x)^{y} = $			by 5 it becomes 80% of	
	(a) 17	(b) –17		itself. Find the	
	(c) – 37	(d) 37		(a) 24	(b) 25
L 9 .	Which decir	nal number is		(c) 20	(d) 18
		_		2	
	the same as $\frac{5}{4}$		26.	If $\frac{3}{7}$ of 14 + 15% of 60 =	
	(a) 0.75	(b) 2.5		x + 9 then x =	
	(c) 0.25	(d) 1.25		(a) 4	(b) 5
20	A	a madia fam≢200		(c) 3	(d) 6
20.	A man buys a radio for ₹ 300				
	and sells it at profit of 30%.		27.	Which of the following number is greater than $\frac{1}{3}$	
	He sold the radio for				
	(a) 390	(b) 900		fiumber is grea	$\frac{1}{3}$
	(c) 480	(d) 520		(a) 0.037	(b) 0.298
21.	The sum of	7.9, 21.4 and		(c) 0.401	(d) 0.304
	43.7 is				
	(a) 71.1	(b) 81.1			
	(c) 70	(d) 72			

28.	$\frac{2}{5} + \frac{4}{100} =$		35.	$\frac{2}{3}$ x + 7 = 11, x	=
	(a) 0.04	(b) 0.44		(a) 4	(b) 9
	(c) 0.24	(d) 0.4		(c) 6	(d) 12
29.	88 = 10	2	36.	What is a perce	entage
	(a) 190	(b) 200		change from 40	,000 to
	(c) 14	(d) – 14		4,000	
30.	6 times of 28 -	- 4 times of 32		(a) 100% decrease	(b) 10% increase
	(a) 40	(b) 10		(c) 110 % increase	(d) 90% decrease
	(c) 30	(d) 20	37.	A number 50 is	divided into
	0			two parts in the	e ratio 3:2.
31.	$\frac{8}{\sqrt{10} - \sqrt{2}} =$			Find the product of the	
	(a) $\left(\sqrt{10} - \sqrt{2}\right)^2$	(b) $8\left(\sqrt{10} + \sqrt{2}\right)$		numbers	4 × 5 × 5
	· · · · · ·			(a) 300	(b) 600
	(c) $\sqrt{10} + \sqrt{2}$	(d)None		(c) 500	(d) 400
32.	If $a + b = 9$, a^2	$+ b^2 = 35$	38.	12.5% of 48 = 2	2 × 🗌
	find a × b			(a) 3	(b) 2
	(a) 23	(b) 24		(c) 4	(d) 5
	(c) 25	(d) 26	39.	Area of actions	ia 576 ag m
				Area of square	_
33.	$\frac{1}{4}$ of 216 – $\frac{1}{3}$ of 129 =			Its perimeter is	
	4 3	01 149		(a) 92 m	(b) 88 m
	(a) 13	(b) 11		(c) 104 m	(d) 96 m
	(c) 12	(d) 14	40.	Cirumference o	of circle = πd .
34.	In how much time will ₹ 24			Find the circumference	
	becomes ₹ 27 at 6¼% p.a.			when π = 3.14 and d =7 cm	
	(a) 2 years	(b) 1½ years		(a) 22.38 cm	(b) 20.68 cm
	(c) 1 year	(d) $2\frac{1}{2}$ years		(c) 21.98 cm	(d) 22.08 cm

	SECTIO	N 2	45.	An angle is	one fifth of its
(Mental Math	s Concepts)		-	find its measure
	****			(a) 18°	(b) 36°
ŀ1.	What is a distance travelled in 20 min at 54 km/hr?			(c) 72°	(d) 54°
	(a) 27 km	(b) 18 km	46.	Half of a nu	mber is added
	(c) 24 km	(d) 16 km		to 22 then t	he sum is 34.
				The numbe	r is
42.	Which of the		(a) 18	(b) 20	
	equivalent to	$-\frac{7}{2}$ 2		(c) 22	(d) 24
	equivalent to	9 [•]			
	(a) $\frac{28}{36}$	(b) $\frac{36}{28}$	47.	An article c	osting₹450 is
					-
	(c) $\frac{28}{32}$	(d) $\frac{32}{28}$		reduced by	$\frac{1}{15}$ for cash
	01	20		payment. T	he cash down
3.	30 tins of sweetcorn are			price is	
	bought for ₹ 150 and sold at			(a) 30	(b) 60
	₹7 per tin. Find profit after			(c) 420	(d) 390
	selling all the				
	(a) 60%	(b) 20%	48.	The area of	rectangular hall
	(c) 40%	(d) 30%		is 40m ² . Its length is 10 m find	
				its perimete	er
I4 .	A boy's walki	ng pace measures		(a) 28 m	(b) 4 m
	50 cm each. How many meter			(c) 14 m	(d) 18 m
	has he walked after taking 40				
	paces.		49.	Ratio of Rac	lii of two circles
	(a) 20 cm	(b) 20 m		is 2:3. Their circumference's	
	(c) 200 m	(d) 200 cm		ratio is	
				(a) 4:9	(b) 8:27
				(c) 2:3	(d) 3:2

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50.	the ratio 3	of money are in 4, If the second the first sum is	55.	18 – [7 – {2 – (a) 12 (c) 15	$(5 - 4 - 3)\}] =$ (b) 13 (d) 8
	(a) 75 (c) 66	(b) 69 (d) 72	56.	Value of x in (a) 2 (c) 4	$\frac{x}{2} + 5 = 7$ (b) 6 (d) 8
51.	In $\frac{a}{8} + \frac{a}{2} =$ is (a) 24 (c) 18	= 15, the value of a (b) 36 (d) 28	57.		ole of itself at uple interest. (b) 3 years
52.	BC + CA =	AB + BC = 10 cm 11 cm, CA + AB he perimeter of (b) 18 (d) 17	58. 59.	integers who	en consecutive se sum is 222. of them is (b) 72 (d) 70 l a tank in
53.		hree consecutive ers is 129, find the `them. (b) 43 (d) 41		3 hrs. How n	(b) 1 hr (d) 2.5 hrs
54.	$\left(m^{\frac{1}{2}} \times m^{\frac{1}{4}}\right)$ (a) 8 (c) 16	$m^{3} = m^{2}$ (b) 2 (d) 6	60.		(b) 44° (d) 22°

	:9		Maths Competition®	6
	S	ECTION 3 (Ment	tal Maths Challe	enge)
61.		as to secure 45% 7 19 marks Find t (b) 300	-	He got 71 marks rks. (d) 500
62.		istributed among e between the sh (b)₹1200	ares of A and C i	
63.	·	this black, $\frac{1}{2}$ of it tow. Find the lengt (b) 16 m		remaining 4 m is (d) 20 m
64.	One contesta	only two candidat ant got 72% votes he total number (b) 400	s and was elected	
	 5. 7 is added to a number and the sum is multiplied by 4 subtracted from the product and the difference is divid the result is equal to 5. Find the number. (a) 2 (b) 3 (c) 4 (d) 5 			



