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Ratio and Proportion Worksheets

1. If $a : b = 3 : 2$ and $b : c = 3 : 5$, then $a : b : c$ is
 (a) $12 : 9 : 25$ (b) $15 : 9 : 10$ (c) $9 : 6 : 10$
 (d) $15 : 9 : 25$
2. What is the mean proportional of 72 and 32?
 (a) 36 (b) 45 (c) 48 (d) 60
3. Income and expenditure of a person is in the ratio 5 : 4. If income of the person is Rs.18000, then his savings is
 (a) Rs.3600 (b) Rs.3200 (c) Rs.3000 (d) Rs.3400



4. $5 : 7 :: x : 35$. Find the value of x .
5. $(a + b) : (b + c) : (c + a) = 5 : 6 : 7$. $a + b + c = 72$. Find the value of b .
6. If $P : 1.25 :: 7 : 5$, then P is equal to:
 (a) 1.12 (b) 1.2 (c) 1.25 (d) 1.75
7. In a ratio which is equal to 4 ; 5, if the antecedent is 24, then the consequent is:
 (a) 9 (b) 16 (c) 20 (d) 30
8. Two number are in the ratio 4 : 5. If 15 is subtracted from each, the new numbers are in the ratio 5 : 7. The largest of the two numbers is _____.
 (a) 27 (b) 33 (c) 49 (d) 50 (e) 60

9. If 20 men take 12 days to dig a well, working 3 hours a day. Find the time taken by 12 men to dig the same well working 6 hours a day.
 (a) 24 (b) 180 (c) 30 (d) 25 (e) 32

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2		1	2	3	4	5	6		1	2	3	4	5	6		1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28							28	29	30	31				25	26	27	28	29	30	
31																											

MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1		1	2	3	4	5			1	2	3				1	2	3	4	5	6	7
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31	29	30	31				
30	31																										

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1		1	2	3	4	5			1	2	3	4	5	6	5	6	7	8	9	10	11
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	12	13	14	15	16	17	18
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	19	20	21	22	23	24	25
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	26	27	28	29	30	31	
26	27	28	29	30			24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31	
							31																				

10. If 60% of a number is equal to four – fifth of another number, what is the ratio of first number to the second number?
 (a) 2 : 5 (b) 3 : 7 (c) 4 : 3 (d) 7 : 3
11. A varies directly as B^2 , When $B = 3$, $A = 6$. Find A when $B = 6$
 (a) 18 (b) 12 (c) 25 (d) 24 (e) 36
12. If $a : b = 2 : 3$, then find $(3a - b) / (5a - 2b)$
 (a) $2/7$ (b) $1/7$ (c) $3/7$ (d) Cannot be determined
13. $P : Q = 4 : 7$, $Q : R = 2 : 3$. Find $P : Q : R$

14. A mixture contains milk and water in the ratio 4 : 3. If 5 liters of water is added the ratio becomes 4 : 5. Find the quantity of milk in the mixture.



15. If \$72 are divided between two friends in the ration $\frac{1}{4} : \frac{1}{5}$ respectively. Find the amount received by each friend.
16. The mean proportion of 102 and 98 is _____.

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- Barbara Cabrera

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**ANSWERS**

1)	(c) 9, 6, 10
2)	(c) 48
3)	(a) 3600
4)	25
5)	16
6)	(d) 1.75

7)	(d) 30
8)	(d) 50
9)	(b) 10
10)	(c) 4 : 3
11)	(c) 5 : 3
12)	(c) 3 : 7
13)	8 : 14 : 21

14)	10 liters
15)	\$ 45, \$ 36.
16)	$\sqrt{9996}$

FUN FACT

1. Ratio of water and land on the earth is 29 : 71.
2. The ratio of carbon to oxygen in carbon dioxide is 2.66 : 1
3. Ratio of Mass of Proton to Electron is 1.8×10^3 .

