14. Chain Rule

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A Important Facts 4 formulae.

if at >bt -> directly proportional

if a + > b 1 - Indirect Proportion

Remark: In solving questions by chain rule, we compare every item With the term to be found out.

().1) 15 toys - 234 35 toys > 22

> $152 = 234 \times 35$

:, n= 2546

36 men -> 25 hours 15 mens - >chours 31 x - 300040 x 000 31

15×2 = 36×25

 $1 = \frac{12}{36 \times 255}$ 153

.. N = 60 hours

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(1) 3)	6 men -> 15 days -> \$2100
	9 men -> 12 days -> 7 22
	INVESTMENT VIEWS ! TO RELEASE !
	$6 \times 15 \times 21 = 2100 \times 9 \times 12$
	420 33
	2100×9×126
	15 X 8 2
420	Remark: In Enviso auestigns by
× 6	: 2 = ₹2150. sure dioi
.2520	With the term is ne touch dout.
040	20 meh -> 6 days -> 56 metres
4.4	20 men -> 6 days -> 56 metres 35 men -> 3 days -> 21 metres
	· · · · · · · · · · · · · · · · · · ·
	15 % = 234 x 35
	$20 \times 6 \times 2 = 56 \times 35 \times 3$
	281477
	· 21 = 56x35x31
	20×621
1	LONG TO THE REAL PROPERTY OF THE PARTY OF TH
<u>`</u>	5
-	2 = 49 metres
	15 mens T Ochours -
(05)	15 men -> 9 hours -> 16 days 18 men -> 8 hours -> 2 days
4.27	18 men > 8 hours > 2 days
-	- A Guys
*	18 x 8 x 2 = 15 x 9 x 16
*	
7	n = 15.x9x16/2
	18 X 8.
	2
	:. [21 = 15 days]
	· , / /

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(1.6) 9 engines > 8 hours > 24 coal 8 engines > 13hours > 24 coal

> 3 9/x8x1 x 2 = 24 x 8 x 13 x 1 3

 $-24\times2\times13$

:. 2e = 26 coal

1

117men -> 8hours -> 33 days -> 4 2 men -> 9hours -> 13 days = 3

Less work Less men (Direct)
Less days more men (Indirect)
more hours less men (indirect)

21 x9 x13 x 41 = 3 x33 x 8 X 1 17

n= 11×2×44

 $= 22 \times 9$ M = 198 V $198 - 117 \rightarrow 81$

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- (P.8)	3300 men -> 25 days -> 850. 21 men -> 17 days -> 825
	less days more men (Indirect) less ration, more men (Indirect)
-3 -17 -5 -35	$21 \times 17 \times 825 = 850 \times 25 \times 3300$ $50 = 6 + 00$ $1 \times 17 \times 825 = 850 \times 25 \times 3300$ $1 \times 17 \times $
850	33,
12 12	Final ans > 5000-3300
5,000	7 1700 //
- 3300	Less days mode ands (fodinger
	thore bours ledd nen Cibalnecet
	HALL & NEED BY BY TONE WENT TO
-	
	1.41 × -6 × 1) = 30
-	
	PART PRODUCTION