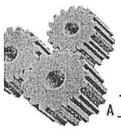
GEAR RATIOS





S A GEAR THAT IS CONNECTED TO THE MOTOR OR THAT TURNS ANOTHER GEAR.



A DEWEN IS A GEAR THAT IS TURNED BY A DRIVER.

CAN A DRIVEN BEADRIVER? WHY?

Yes, you can add another gear on to the gear train.

HOW DO YOU FIND THE TEETH RATIO?

<u>Driver</u> Driven * A ratio is a compair1800 between two numbers

IF MY DRIVERS HAS 15 TEETH AND MY DRIVEN HAS 45 TEETH WHAT IS MY EQUATION?

Driver 15 Driven 45

CAN IT BE REDUCED?

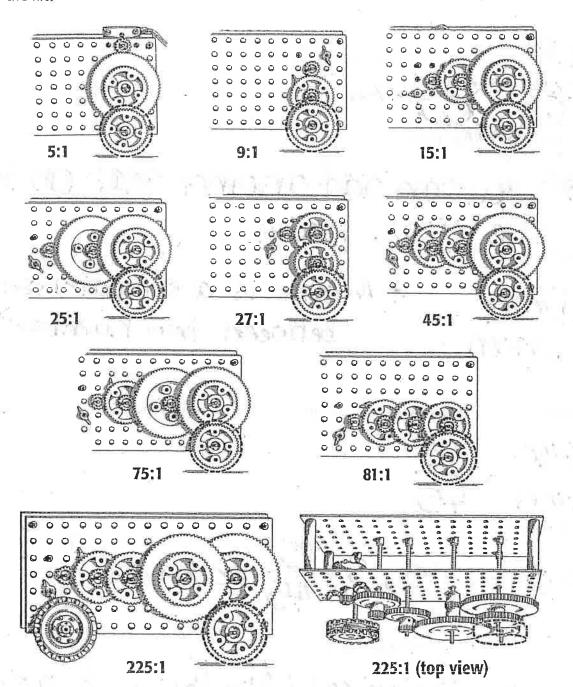
Yes " by 15, 80 45 becomes \frac{1}{3}

WHAT DO I NEED TO DO TO FIND MY GEAR RATIO?

Find the reciprical (flip the teeth ratio)

Gear Ratio Examples

the kit:



To find the keth ratio there must be a tooth to tooth connection like this *Then my arrows show the driver to driven Dairs. *Then I can put them into ratios Driver/Driven *Then you can reduce & multiply * Reduce your final answer (& you have your teeth ratio *Find the reciprica or flip it to 6. find your *Try the rest 50 to see if you understand. 7.

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GEAR RATIO RECORDING TABLE

Drawing of Gear Pair (driver, driven)	Teeth on Driver Gear	Teeth on Driven Gear	Teeth Ratio (driver: driven)	Rotations of Driver Gear	Rotations of Driven Gear	Gear Ratio (driver rotations: driven rotations)
	15	45	e *	,		
	45	15			S.	10
	15	75			9	
	75	15		1	1.8	
	45	75	. 1		ii.	tu (A
	75	45	,			# (E)

GEAR RATIO PRACTICE SHEET

Drawing of Gear Pain (driver, driven)	Teeth on Driver Gear	Textila on Driven Gear	Tectia Radio (driver: driven)	Rotations of Driver Gear	Rolations of Driven Gear	Gear Ratio (driver sptaktons: driven rototions);
, t	15		1:4			
	15	75 ,	Ť.			
	10			5		
	25					5:1
			10:1			
		80				4:1
	20			5	3	
		24	3:1			