GEAR RATIO EXAMINATION QUESTION

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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On behalf of The World Association of Technology Teachers

W.A.T.T.



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The gear system is shown below. What is the name of this type of gear system?

NAME: WORLD ASSOCIATION OF TECHNOLOGY TEACHERS https://www.facebook.com/groups/254963448192823/ GEAR A GEAR C GEAR D GEAR D

Gear A rotates in a clockwise direction at 30 revs/min. What is the output in revs/min at D and what is the direction of rotation?

	GEAR A	GEAR B	GEAR C	GEAR D	
	120 teeth	40 teeth	80 teeth	20 teeth	
First find revs/min at Gear B. $\underline{\qquad}_{\text{teeth}} \underline{B} = \underline{B}$					
rpm X = rpm / min					
REVS/MIN at C =					
Next find revs/min at Gear D. $\underbrace{teeth}_{teeth} \frac{C}{D} =$					
rpm (at C) X = rpm / min					
REVS/MIN at D = DIRECTION OF ROTATION at D =					