Q1.

Create the Bevel Gear assembly as explained in the video **Module 7, Part 3**.

The video is available to view under the Content section of this week's module.

Upload SOLIDWORKS part files, assembly drawing file and exploded assembly drawing file with BOM. No need to submit individual drawing files.

Use any material.

Q2.

Create the Belt and Pulley assembly as explained in the video **Module 7, Part 4.**

The video is available to view under the Content section of this week's module.

Upload SOLIDWORKS part files, assembly drawing file and exploded assembly drawing file with BOM. No need to submit individual drawing files.
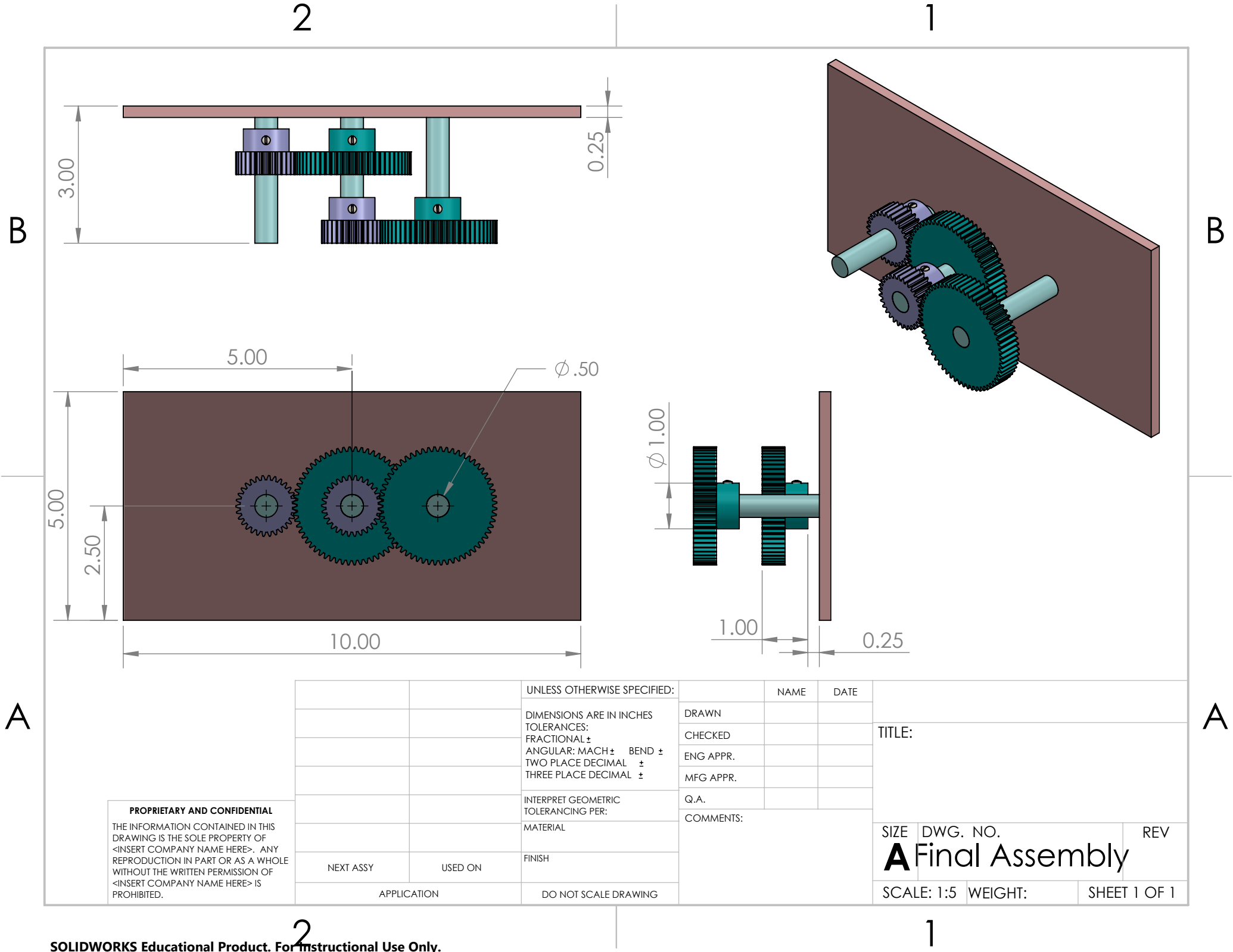
Use any material.

Q3.

Complete the Spur gear assembly as shown on drawing sheets below:

[Calculate center distance between holes as per the equation using Diametral Pitch, Pitch Circle Diameter and Number of Teeth as explained in the video **Module 7, Part 2.**

Use any material.

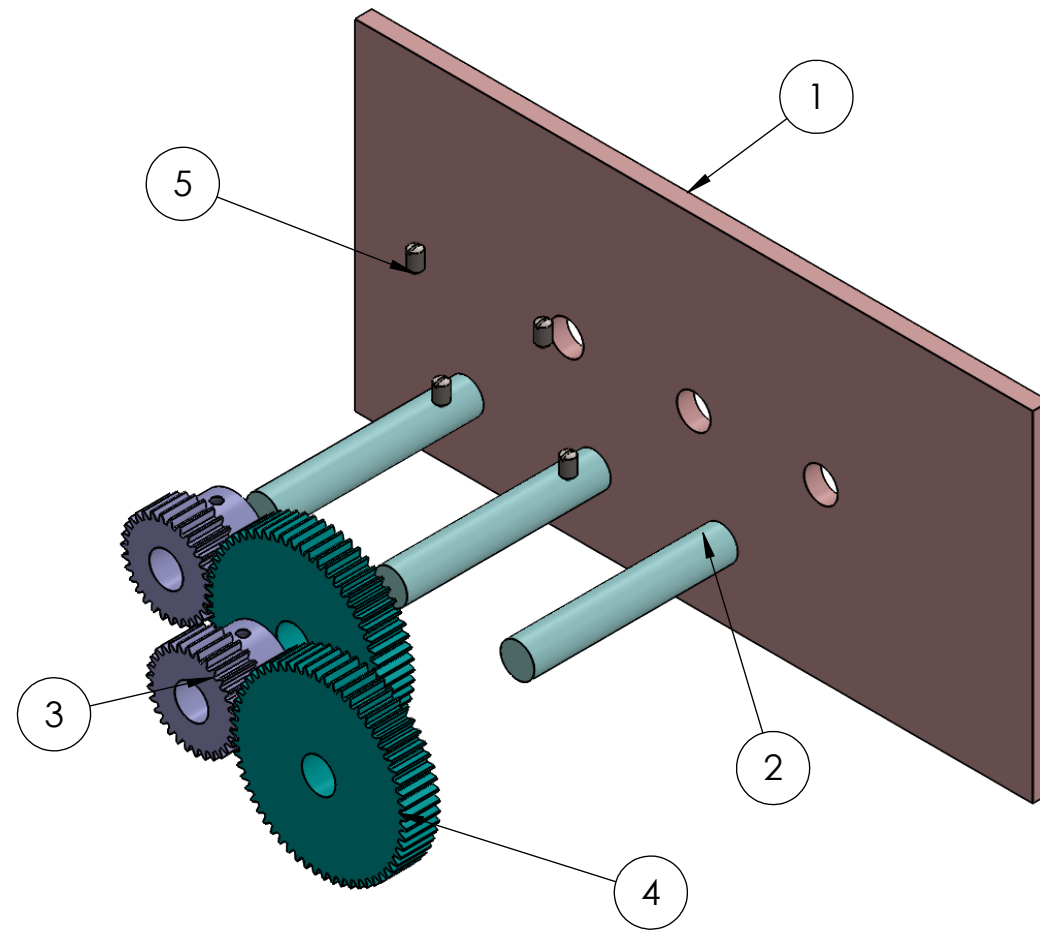Calculate the gear ratio based on the assembly.

2

1

B

B

3.00

0.25

5.00

5.00

2.50

Ø .50

Ø 1.00

10.00

1.00

0.25

A

A

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE			
		DIMENSIONS ARE IN INCHES	DRAWN					
		TOLERANCES:	CHECKED			TITLE:		
		FRACTIONAL±						
		ANGULAR: MACH± BEND ±	ENG APPR.					
		TWO PLACE DECIMAL ±						
		THREE PLACE DECIMAL ±	MFG APPR.					
			Q.A.					
		INTERPRET GEOMETRIC						
		TOLERANCING PER:	COMMENTS:					
		MATERIAL				SIZE	DWG. NO.	REV
						A	Final Assembly	
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

2

1

B

ITEM NO.	PART NUMBER	QTY.
1	Plate	1
2	Shaft	3
3	Inch - Spur gear 24DP 30T 20PA 0.5FW --- S30O1H1L0.5N	2
4	Inch - Spur gear 24DP 60T 20PA 0.5FW --- S60O1H1L0.5N	2
5	SSFLATSLT 0.19-24x0.315-C	4

B

A

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL± ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN			
			CHECKED			TITLE:
			ENG APPR.			
			MFG APPR.			
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			
			COMMENTS:			
		MATERIAL				

NAME   DATE

SIZE **A** DWG. NO. **BOM**   REV

SCALE: 1:5 WEIGHT: SHEET 1 OF 1

NEXT ASSY   USED ON   FINISH

APPLICATION   DO NOT SCALE DRAWING

A