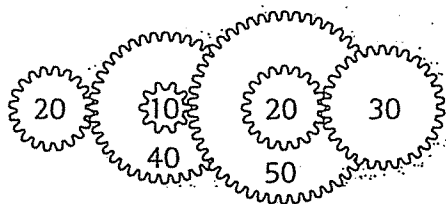


MULTIPLYING FRACTIONS TO CALCULATE GEAR RATIOS SHEET

Use a fraction to represent each pair of meshing gears. Then multiply the fractions to find the gear ratio for the gear train. The number on each gear is the number of teeth on the gear.



Here's one way to solve these problems:

$$\frac{40}{20} \times \frac{50}{10} \times \frac{30}{20} =$$

$$\frac{2}{1} \times \frac{5}{1} \times \frac{3}{2} =$$

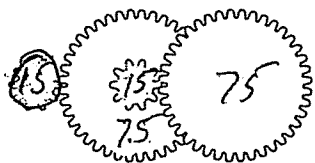
$$\frac{2 \times 5 \times 3}{1 \times 1 \times 2} =$$

$$\frac{30}{2} =$$

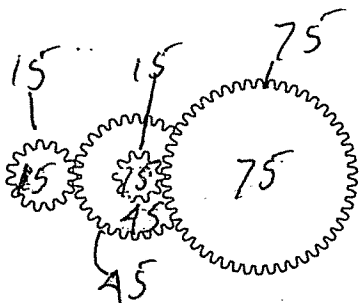
$$\frac{15}{1}$$

1. Write a gear ratio fraction that represents each pair of meshing gears.
2. Simplify the fractions if you can.
3. Multiply the numerators and denominators.
4. Write the products.
5. Simplify the fraction if you can.

1.

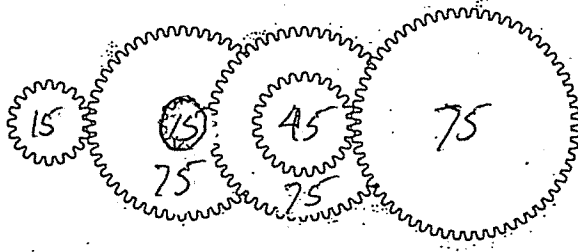


2.

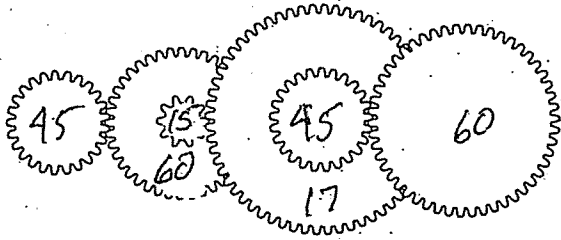


(continued)

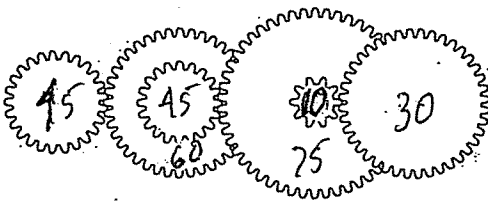
3.



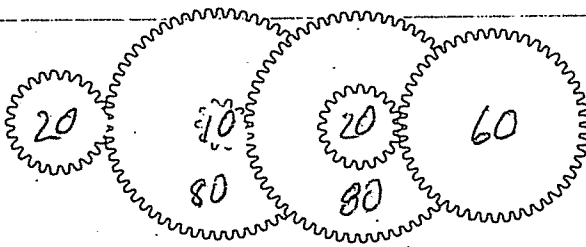
4.



5.



6.



7.

