Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

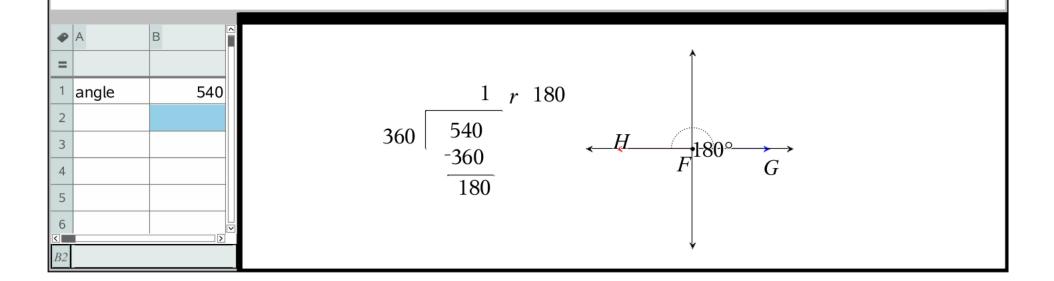
## Process:

Step 1) Divide given angle by 360

Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So 540 ° is  $1\frac{1}{2}$  revolution and the coterminal angle is 180 °



Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

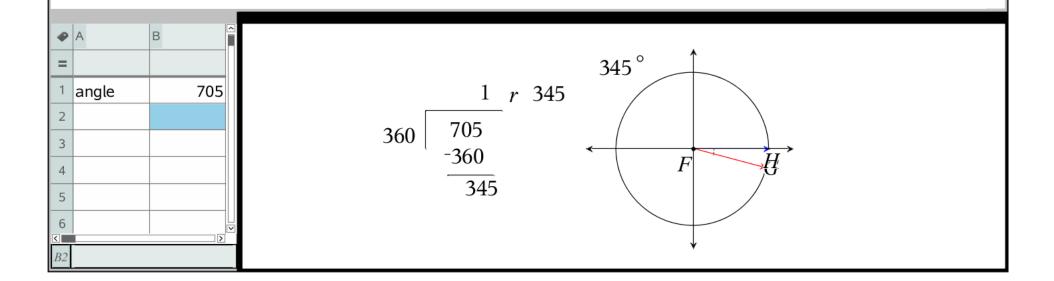
# Process:

Step 1) Divide given angle by 360

Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So 705° is  $1\frac{23}{24}$  revolution and the coterminal angle is 345°



Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

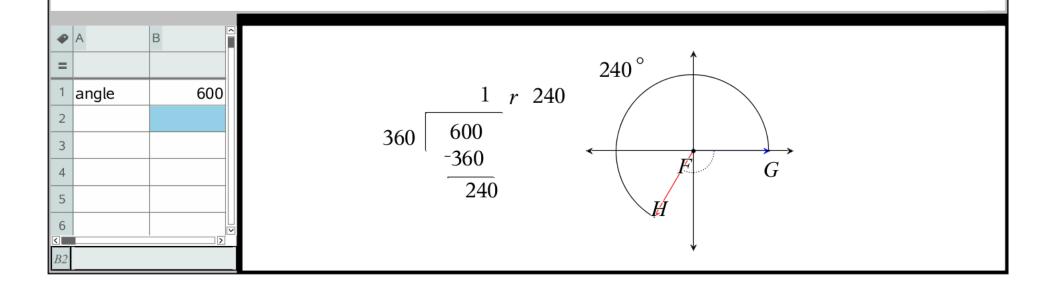
# Process:

Step 1) Divide given angle by 360

Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So 600 ° is  $1\frac{2}{3}$  revolution and the coterminal angle is 240 °



Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

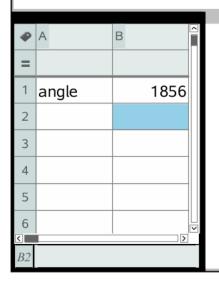
# Process:

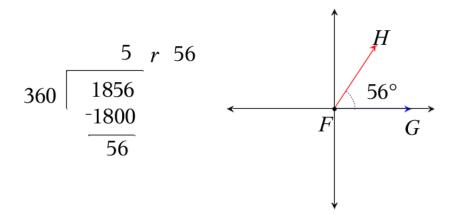
Step 1) Divide given angle by 360

Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So 1856° is  $5\frac{7}{45}$  revolutions and the coterminal angle is 56°





Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

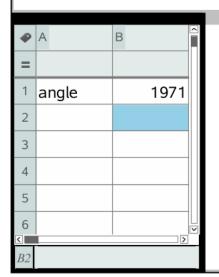
## Process:

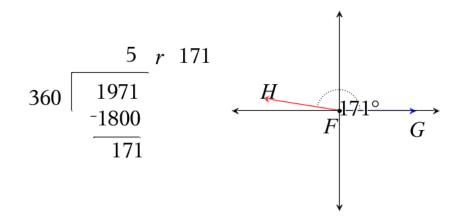
Step 1) Divide given angle by 360

Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So 1971 ° is  $5\frac{19}{40}$  revolutions and the coterminal angle is 171 °





Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

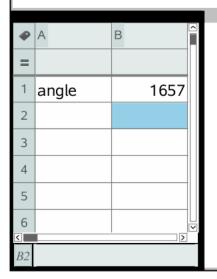
# Process:

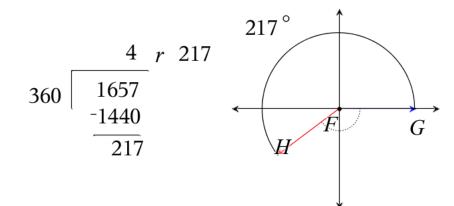
Step 1) Divide given angle by 360

Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So 
$$1657$$
° is  $4\frac{217}{360}$  revolutions and the coterminal angle is  $217$ °





Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

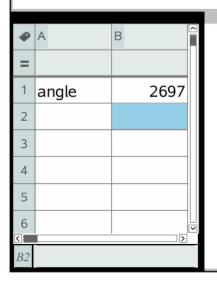
## Process:

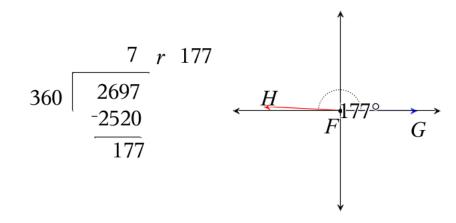
Step 1) Divide given angle by 360

Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So 2697 ° is 
$$7\frac{59}{120}$$
 revolutions and the coterminal angle is 177 °





Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

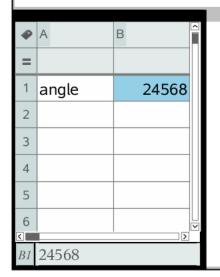
## Process:

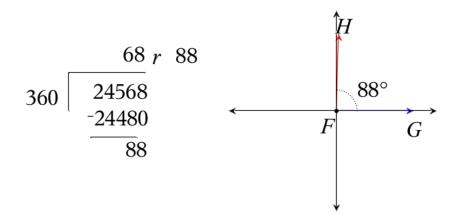
Step 1) Divide given angle by 360

Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So 24568° is  $68\frac{11}{45}$  revolutions and the coterminal angle is 88°





Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

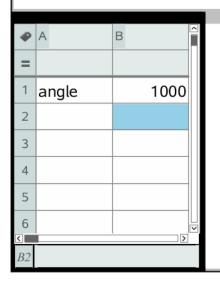
# Process:

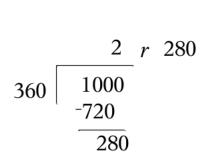
Step 1) Divide given angle by 360

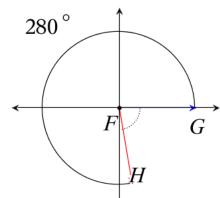
Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So  $1000^{\circ}$  is  $2\frac{7}{9}$  revolutions and the coterminal angle is  $280^{\circ}$ 







Goal: Determine the number of revolutions that an angle that exceeds 360° represents

Goal: Determine the equivalent angle that lies in (0,360)

# Process:

Step 1) Divide given angle by 360

Step 2) The quotient represents the number of rotations

Step 3) The remainder represents the coterminal angle that lies within (0,360)

So 2000 ° is  $5\frac{5}{9}$  revolutions and the coterminal angle is 200 °

