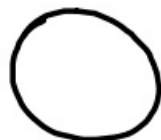


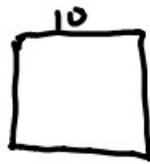
9-10-18 5th Geo

Hickon Proof 2

14 inch pizza - diameter



$$\text{Area} = \pi r^2$$



$$10 \rightarrow \text{Area} = 100 \text{ in}^2$$

$$6 \text{ eggs for } \$2 \rightarrow \frac{\$2}{6 \text{ eggs}} = \$.33 \text{ per egg}$$

$$150 \text{ eggs for } \$55 \rightarrow \frac{\$55}{150 \text{ eggs}} = \$.36 \text{ per egg}$$

Reflexive

$$a = a$$

$$8 = 8$$

$$\overline{AB} = \overline{AB}$$

Symmetric

$$2 + 3 = 5, \text{ so } 5 = 2 + 3$$

$$\text{If } \overline{AC} = \overline{NY}, \text{ then } \overline{NY} = \overline{AC}$$

Transitive



If $a = b$ and $b = c$, then $a = c$

If $\overline{AB} = \overline{BD}$ and $\overline{BD} = \overline{XY}$, then $\overline{AB} = \overline{XY}$

Substitution

If $a = 10$ and $a + y = 20$, then

$$10 + y = 20.$$

If $\overline{AB} = \overline{XY}$ and $\overline{AB} + \overline{CD} = \overline{HT}$,

$$\text{then } \overline{XY} + \overline{CD} = \overline{HT}$$

Addition

$$\begin{array}{r} x - 6 = 10 \\ + 6 \quad + 6 \\ \hline \end{array} \quad \text{If } x - 6 = 10, \text{ then} \\ x = 16.$$

Subtraction

If $\overline{AB} + \overline{CD} = 10$, then

$$\overline{AB} = 10 - \overline{CD}$$

Multiplication

If $\frac{AB}{2} = 5$, then $AB = 5 \cdot 2$

Division

If $2 \cdot AB = 8$, then $AB = \frac{8}{2}$

① If $\overline{AN} = \overline{BY}$, then $\overline{BY} = \overline{AN}$
Symmetric

② If $\angle XYZ + \angle ABC = \angle ABC + \angle CWH$,
then $\angle XYZ = \angle CWH$.
Subtraction ($\angle ABC$)

③ If $AB = 6$ and $AB + BC = 10$, then
 $6 + BC = 10$.
Substitution

④ If $5 \cdot AB = BC$, then
 $AB = \frac{BC}{5}$ Division ($\div 5$)

⑤ If $XY - 10 = BC$, then
 $XY = BC + 10$.
Addition (+10)

⑥ If $\overline{AB} - \overline{XY} = \overline{CD} - \overline{XY}$, then
 $\overline{AB} = \overline{CD}$.

Addition (+ \overline{XY})

⑦ If $AB = a$ and $a = CY$, then
 $AB = CY$.

Transitive

⑧ $Momma = Momma$

$\angle XYZ = \angle XYZ$

Reflexive

9-10-18 6th Geo

Hickam Proof 2



$$A = \pi r^2$$



$$A = 12 \cdot 12 = 144 \text{ in}^2$$

$$6 \text{ eggs for } \$2 \rightarrow \frac{\$2}{6 \text{ eggs}} = \$\overline{.33} / \text{egg}$$

$$20 \text{ eggs for } \$6.50 \rightarrow \frac{\$6.50}{20 \text{ eggs}} = \$\overline{.325} / \text{egg}$$

Reflexive

$$a = a$$

$$8 = 8$$

$$\overline{AB} = \overline{AB}$$

Symmetric

$$\text{If } 2+3=5, \text{ then } 5=2+3$$

$$\text{If } \overline{AB} + \overline{BC} = \overline{AC}, \text{ then } \overline{AC} = \overline{AB} + \overline{BC}$$

Transitive



$$\text{If } a = b \text{ and } b = c, \text{ then } a = c.$$

Substitution

If $a = 10$ and $a + y = c$, then

$$10 + y = c$$

Addition

If $a - b = c$, then

$$a = c + b. \quad (+ b \text{ to B.S.})$$

Subtraction

If $\overline{AB} + 10 = \overline{XY}$, then

$$\overline{AB} = \overline{XY} - 10 \quad (-10 \text{ from B.S.})$$

Multiplication

If $\frac{AC}{2} = XY$, then $AC = 2 \cdot XY$.

Division

If $7 \cdot AB = CD$, then $AB = \frac{CD}{7}$.

① If $\overline{AM} + \overline{XY} = \overline{BC} + \overline{XY}$, then
 $\overline{AM} = \overline{BC}$. Subtraction ($-\overline{XY}$)

② $\angle ABC = \angle ABC$ Reflexive

③ If $AB = 6$ and $AB + BC = XY$, then
 $6 + BC = XY$. Substitution

④ If $XY - 4 = BC$, then $XY = BC + 4$.
ADDITION (+4)

⑤ If $5 \cdot AB = XY$, then $AB = \frac{XY}{5}$.
Division ($\div 5$)

⑥ If $\angle XYZ + \angle ABC = \angle NTC + \angle ABC$,
then $\angle XYZ = \angle NTC$.
Subtraction ($-\angle ABC$)

⑦ If $AB = 2$ and $2 = NT$,
then $AB = NT$.

Transitive

⑧ If $\angle 1 + \angle 2 = 90^\circ$ and
 $\angle 2 = \angle 5 + \angle 6$, then
 $\angle 1 + \angle 5 + \angle 6 = 90^\circ$

Substitution

⑨ If $\frac{4}{AB} = 10$, then $4 = 10 \cdot AB$.

Multiplication (\times by AB)