

of times on a
plane

Jan 13/17
Isaac

# times on a plane	Frequency
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10 22

0-5

4

10 2

6-10

5

0 15

11-20

2

4 0

21-30

1

7 8

31-40

1

10 4

3414

Sample Types

Sample #1 - Random Sample

Every individual has the same chance of being chosen

A random number generator is used to identify which numbers of the population are chosen

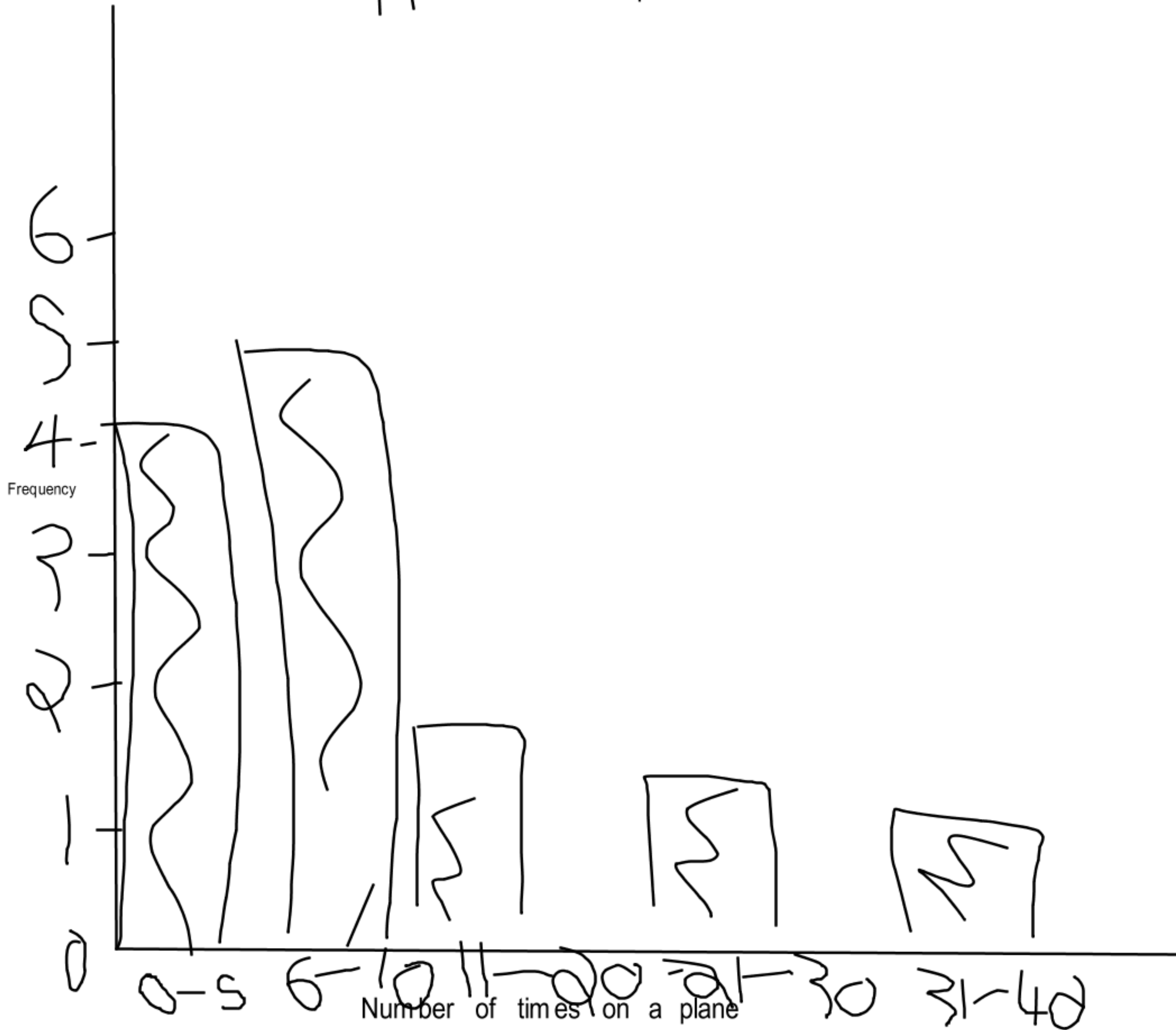
Sample #2 - Cluster Sample

Many people in few small regions are surveyed. The other regions are ignored. Example: A survey of all staff at 3 different Tim's locations.

Sample #3 - Voluntary Response Sample

Sample group is not required, for the survey to be completed. It is their choice to complete the survey, such as a phone or email survey.

of times on a plane



Jason

$$\frac{4r^2}{4} + \frac{44r}{4} + \frac{112}{4}$$

$$4(r^2 + 11r + 28) \quad \begin{matrix} \times 28 \\ + 11 \\ \hline 7, 4 \end{matrix}$$

$$4(r+4)(r+7)$$

$$\begin{matrix} -4 \\ r+4=0 \end{matrix} \quad \begin{matrix} -7 \\ r+7=0 \end{matrix} \rightarrow$$

$$SS = \{-4, -7\}$$

Difference Of Squares

$$\sqrt{x^2} - 64 = 0$$

$$(x+8)(x-8)$$

Decomposition

$$a^2 - 12b + 4$$

$$\otimes + 36$$

$$\oplus - 12$$

$$-b, -6$$

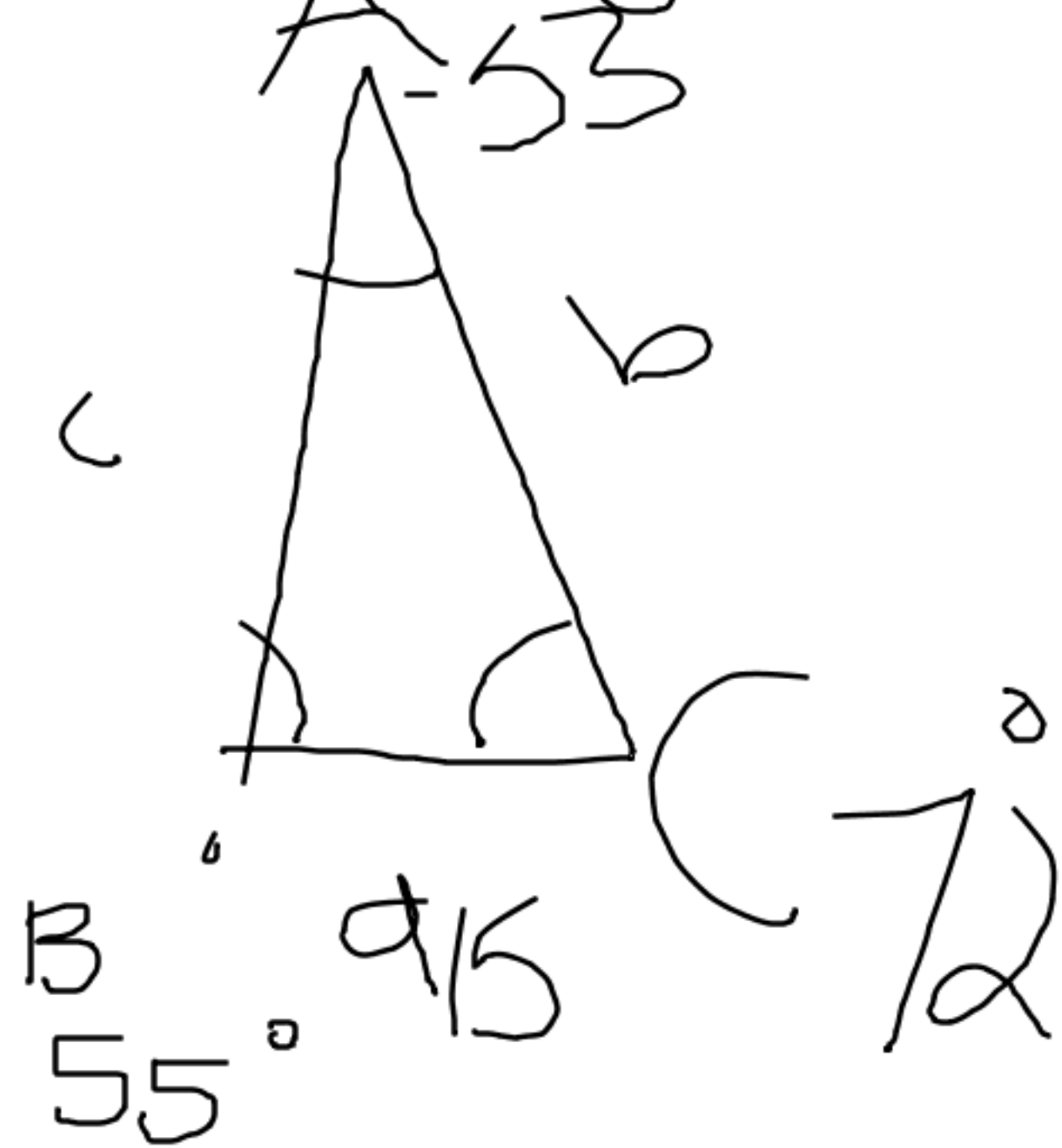
$$\left(\frac{a^2}{b} - \frac{6b}{3b} \right) \left(\frac{-6b}{-2} - \frac{\pm 4}{-2} \right)$$

$$3b(3b-2) - 2(3b-2)$$

$$(3b-2)(3b-2)$$

$$(3b-2)^2$$

Sine Law



Faith

$$A = 53^\circ \quad a = 15$$

$$B = 55^\circ \quad b = 15$$

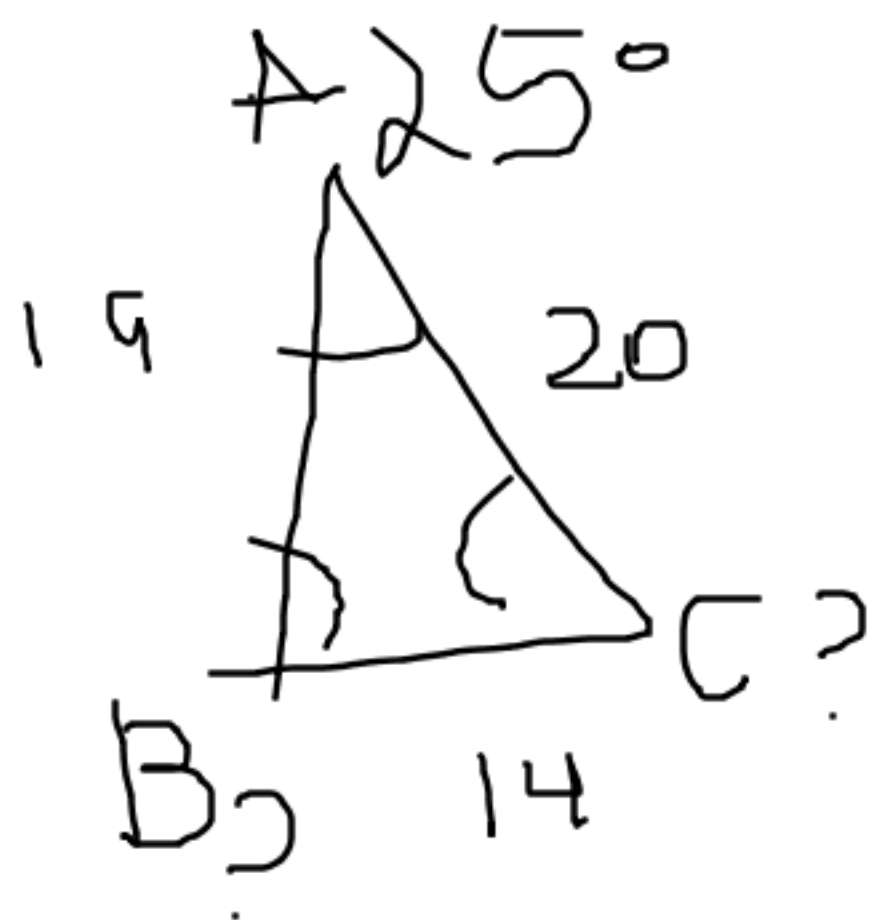
$$C = 72^\circ \quad c =$$

$$\frac{a}{\sin A} = \frac{b}{\sin B}$$

$$b = 15.4 \times \sin 55^\circ$$

$$b = 15$$

$$\frac{15}{\sin 53^\circ} = \frac{b}{\sin 55^\circ \times \sin 55^\circ}$$



$$A = 25^\circ$$

$$B = 37^\circ$$

$$C =$$

$$a = 14$$

$$b = 20$$

$$c = 19$$

$$\frac{\sin A}{a} = \frac{\sin B}{b}$$

$$20 \times \frac{\sin 25}{14} = \frac{\sin B}{20} \times 20$$

$$\sin^{-1} \sin B = 0.6037 \quad B = 37^\circ$$

$$B = 37.135$$