

Date: 1/18/2021



## Review of Bases

1. express the numbers below in expanded form of base-10

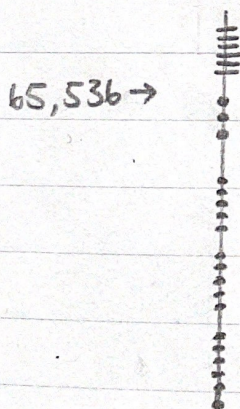
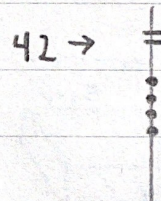
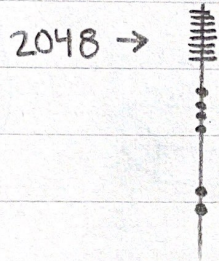
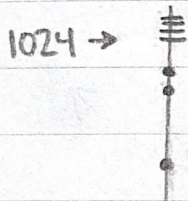
•  $1024 = (1 \times 10^3) + (0 \times 10^2) + (2 \times 10^1) + (4 \times 10^0)$

•  $2048 = (2 \times 10^3) + (0 \times 10^2) + (4 \times 10^1) + (8 \times 10^0)$

•  $42 = (4 \times 10^1) + (2 \times 10^0)$

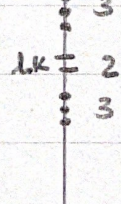
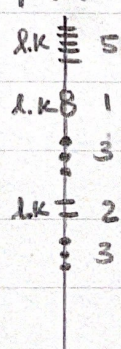
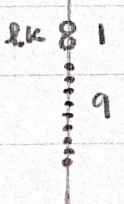
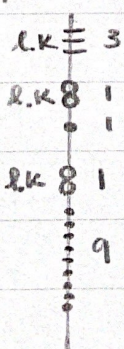
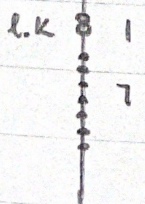
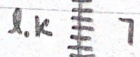
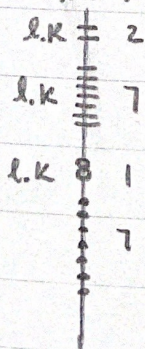
•  $65,536 = (6 \times 10^4) + (5 \times 10^3) + (5 \times 10^2) + (3 \times 10^1) + (6 \times 10^0)$

2. Draw each of the numbers above as Quipu knot diagrams



2	3	5
7	11	13
17	19	23

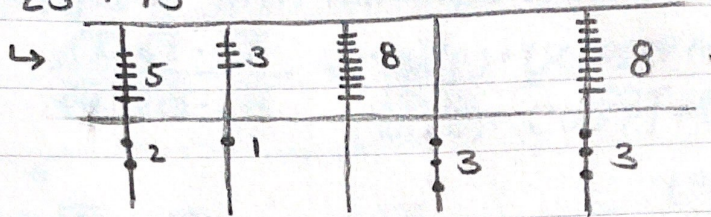
3. Draw the following table as Quipu Knot diagram



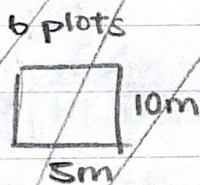


## Accounting Problems

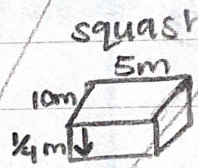
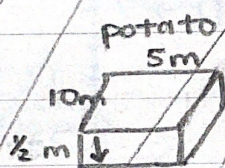
1.  $25 + 13$



2. high altitude  $\rightarrow$  potatoes  $\rightarrow 3$   
low altitude  $\rightarrow$  squash  $\rightarrow -3$



$A = 50m^2$

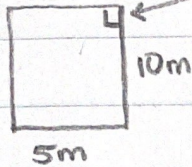


400 squashes

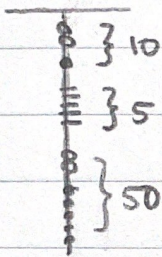


Date: \_\_\_\_\_

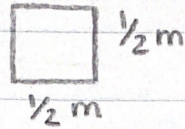
## 2. Plots



$$A = 50 \text{ m}^2$$

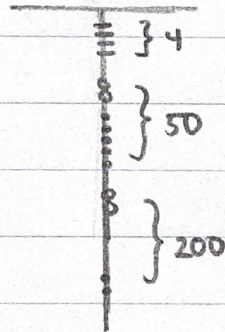


## Potato plots

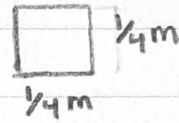


$$A = \frac{1}{4} \text{ m}^2$$

$$\frac{50}{\frac{1}{4}} = 50 \times 4$$
$$= \boxed{200 \text{ potatoes}}$$



## Squash plots



$$A = \frac{1}{16} \text{ m}^2$$

$$\frac{50}{\frac{1}{16}} = 50 \times 16$$
$$= \boxed{800 \text{ squash}}$$

