MapReduce

Classroom example

This is the file to create a map reduce classroom example. The setup is as follows

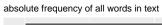
- 1. print this file
- 2. give the raw file to 1-4 students, they shall count the words. Measure the time. This is sequential processing.
- 3. give the chunked file to the respective number of students. There are n=2,4,5,10 groups available. The number of students is the chunk server.
- 4. one student acts as the "reduce" server, collecting all the counts.
- 5. write the counts on the whiteboard including the times
- 6. which number of groups is the most efficient and which produces considerable overhead?

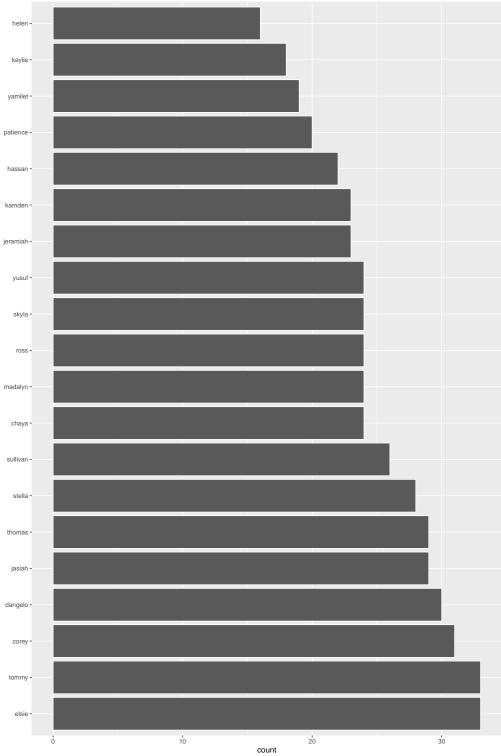
some summary statistics on the raw data

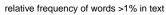
In total there are 500 words available.

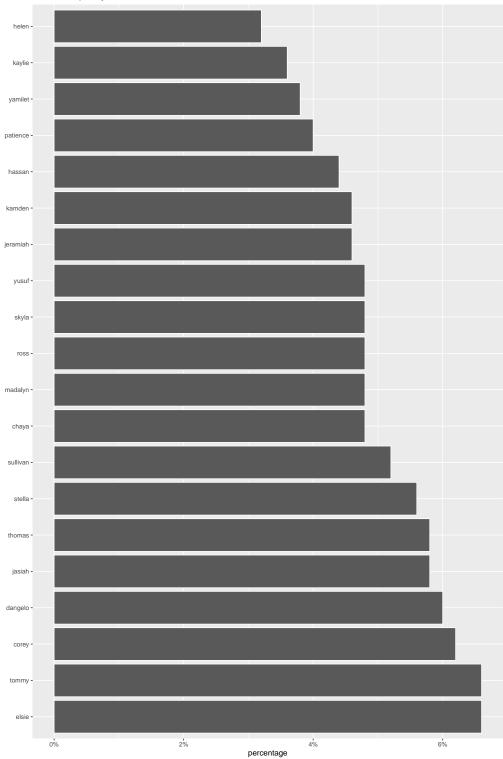
words	Freq	percentage	percentage_round
elsie	33	6.60%	6.60%
tommy	33	6.60%	6.60%
corey	31	6.20%	6.20%
dangelo	30	6.00%	6.00%
jasiah	29	5.80%	5.80%
thomas	29	5.80%	5.80%
stella	28	5.60%	5.60%
sullivan	26	5.20%	5.20%
chaya	24	4.80%	4.80%
madalyn	24	4.80%	4.80%
ross	24	4.80%	4.80%
skyla	24	4.80%	4.80%

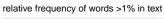
yusuf	24	4.80%	4.80%
jeramiah	23	4.60%	4.60%
kamden	23	4.60%	4.60%
hassan	22	4.40%	4.40%
patience	20	4.00%	4.00%
yamilet	19	3.80%	3.80%
kaylie	18	3.60%	3.60%
helen	16	3.20%	3.20%

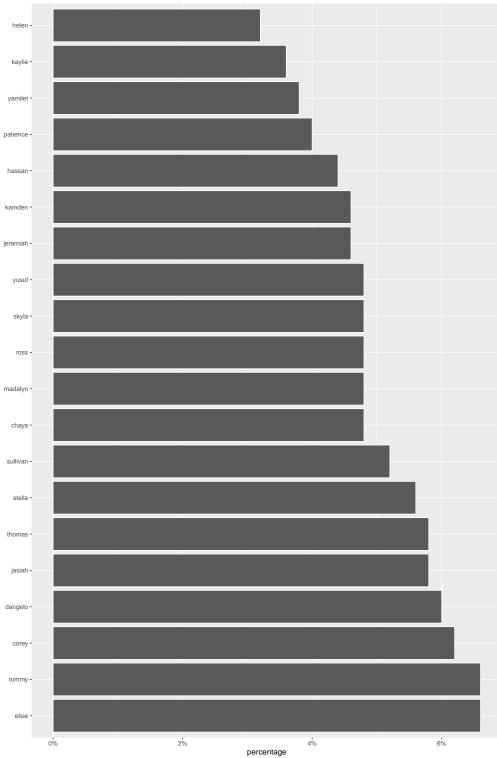












The Raw data 01

Yusuf, Chaya, Thomas, Skyla, Kamden, Jeramiah, Elsie, Jasiah, Yamilet, Jasiah, Thomas, Yusuf, Elsie, Corey, Hassan, Kaylie, Corey, Yamilet, Corey, Yamilet, Chaya, Stella, Kaylie, Thomas, Yamilet, Sullivan, Corey, Yusuf, Chaya, Elsie, Elsie, Jasiah, Stella, Patience, Jeramiah, Stella, Tommy, Corey, Yusuf, Hassan, Hassan, Stella, Chaya, Yamilet, Tommy, Elsie, Kamden, Kaylie, Stella, Corey, Hassan, Madalyn, Thomas, Dangelo, Jeramiah, Patience, Tommy, Sullivan, Yusuf, Patience, Hassan, Jasiah, Elsie, Dangelo, Tommy, Stella, Corey, Madalyn, Jeramiah, Sullivan, Ross, Tommy, Corey, Jasiah, Helen, Jeramiah, Sullivan, Yusuf, Sullivan, Kamden, Jeramiah, Thomas, Yusuf, Thomas, Madalyn, Jasiah, Tommy, Tommy, Hassan, Yusuf, Tommy, Skyla, Stella, Thomas, Yusuf, Tommy, Madalyn, Hassan, Stella, Ross, Madalyn, Dangelo, Dangelo, Hassan, Patience, Elsie, Helen, Jasiah, Stella, Jasiah, Madalyn, Skyla, Corey, Stella, Corey, Madalyn, Thomas, Hassan, Yamilet, Elsie, Corey, Kaylie, Helen, Jasiah, Chaya, Patience, Kamden, Skyla, Thomas, Dangelo, Madalyn, Thomas, Helen, Ross, Stella, Stella, Thomas, Corey, Ross, Ross, Elsie, Sullivan, Kaylie, Tommy, Chaya, Kaylie, Hassan, Madalyn, Jasiah, Tommy, Stella, Skyla, Skyla, Tommy, Chaya, Elsie, Helen, Patience, Skyla, Elsie, Skyla, Chaya, Dangelo, Kamden, Helen, Jeramiah, Jeramiah, Helen, Chaya, Hassan, Elsie, Madalyn, Yamilet, Sullivan, Tommy, Yamilet, Thomas, Dangelo, Kaylie, Elsie, Ross, Dangelo, Jeramiah, Jeramiah, Patience, Ross , Madalyn, Dangelo, Elsie, Sullivan, Chaya, Dangelo, Stella, Madalyn, Elsie, Tommy, Ross, Kamden, Skyla, Thomas, Kamden, Skyla, Sullivan, Elsie, Tommy, Patience, Dangelo, Stella, Elsie, Stella, Kamden, Yusuf, Stella, Ross, Sullivan, Sullivan, Chaya, Patience, Kamden, Tommy, Yusuf, Sullivan, Ross, Elsie, Skyla, Stella, Stella, Dangelo, Yusuf, Yusuf, Kamden, Madalyn, Jasiah, Madalyn, Kamden, Thomas, Dangelo, Stella, Sullivan, Helen, Patience, Jeramiah, Corey, Elsie, Chaya, Ross, Sullivan, Helen, Yamilet, Jasiah, Jasiah, Hassan, Kamden, Dangelo, Corey, Yusuf, Madalyn, Kamden, Madalyn, Ross, Hassan, Elsie, Chaya, Jeramiah, Ross, Helen, Chaya, Elsie, Patience, Madalyn, Elsie, Helen, Helen, Helen, Jasiah, Dangelo, Ross, Jeramiah, Sullivan, Hassan, Jasiah, Patience, Ross, Kaylie, Chaya, Kamden, Thomas, Elsie, Corey, Hassan, Thomas, Jeramiah, Yamilet, Corey, Patience, Jasiah, Jasiah, Hassan, Kaylie, Thomas, Yamilet, Yusuf, Tommy, Tommy, Jeramiah, Corey, Dangelo, Skyla, Thomas, Thomas, Jasiah, Tommy, Dangelo, Helen, Jeramiah, Dangelo, Patience, Skyla, Corey, Kaylie, Kaylie, Ross, Jasiah, Sullivan, Skyla, Kaylie, Thomas, Jeramiah, Hassan, Skyla, Stella, Dangelo, Tommy, Kamden, Kaylie, Chaya, Helen, Yusuf, Jeramiah, Sullivan, Jeramiah, Jasiah, Stella, Yamilet, Patience, Dangelo, Dangelo, Yamilet, Helen, Ross, Yusuf, Tommy, Skyla, Hassan, Patience, Corey, Yusuf, Thomas, Kamden, Corey, Stella, Chaya, Tommy, Stella, Elsie, Skyla, Dangelo, Kamden, Patience, Jeramiah, Yusuf, Skyla, Chaya, Thomas, Chaya, Ross, Yusuf, Elsie, Dangelo, Yamilet, Sullivan, Yusuf, Stella, Dangelo, Elsie, Stella, Skyla, Yamilet, Tommy, Corey, Corey, Tommy, Kaylie, Patience, Elsie, Elsie, Kamden, Corey, Sullivan, Corey, Thomas, Jasiah, Kaylie, Dangelo, Jeramiah, Yusuf, Madalyn, Thomas, Corey, Ross, Tommy, Jasiah, Madalyn, Hassan, Corey, Dangelo, Yusuf, Thomas, Tommy, Jasiah, Sullivan, Kaylie, Elsie, Madalyn, Kaylie, Thomas, Madalyn, Jasiah, Sullivan, Kamden, Chaya, Hassan, Ross, Chaya, Yamilet, Chaya, Stella, Tommy, Jasiah, Jeramiah, Ross , Thomas, Sullivan, Madalyn, Jeramiah, Tommy, Skyla, Skyla, Corey, Corey, Ross , Yamilet, Sullivan, Kaylie, Hassan, Jasiah, Madalyn, Dangelo, Dangelo, Stella, Patience, Elsie, Dangelo, Skyla, Elsie, Elsie, Sullivan, Yusuf, Kamden, Skyla, Yamilet, Hassan, Chaya, Kamden, Tommy, Sullivan, Madalyn, Elsie, Tommy, Tommy, Ross , Tommy, Thomas, Thomas, Corey, Patience, Skyla, Corey, Jasiah, Sullivan, Kamden, Jasiah, Ross , Yamilet, Corey, Kamden, Chaya, Tommy, Dangelo

The Raw data 02

Yusuf, Chaya, Thomas, Skyla, Kamden, Jeramiah, Elsie, Jasiah, Yamilet, Jasiah, Thomas, Yusuf, Elsie, Corey, Hassan, Kaylie, Corey, Yamilet, Corey, Yamilet, Chaya, Stella, Kaylie, Thomas, Yamilet, Sullivan, Corey, Yusuf, Chaya, Elsie, Elsie, Jasiah, Stella, Patience, Jeramiah, Stella, Tommy, Corey, Yusuf, Hassan, Hassan, Stella, Chaya, Yamilet, Tommy, Elsie, Kamden, Kaylie, Stella, Corey, Hassan, Madalyn, Thomas, Dangelo, Jeramiah, Patience, Tommy, Sullivan, Yusuf, Patience, Hassan, Jasiah, Elsie, Dangelo, Tommy, Stella, Corey, Madalyn, Jeramiah, Sullivan, Ross, Tommy, Corey, Jasiah, Helen, Jeramiah, Sullivan, Yusuf, Sullivan, Kamden, Jeramiah, Thomas, Yusuf, Thomas, Madalyn, Jasiah, Tommy, Tommy, Hassan, Yusuf, Tommy, Skyla, Stella, Thomas, Yusuf, Tommy, Madalyn, Hassan, Stella, Ross, Madalyn, Dangelo, Dangelo, Hassan, Patience, Elsie, Helen, Jasiah, Stella, Jasiah, Madalyn, Skyla, Corey, Stella, Corey, Madalyn, Thomas, Hassan, Yamilet, Elsie, Corey, Kaylie, Helen, Jasiah, Chaya, Patience, Kamden, Skyla, Thomas, Dangelo, Madalyn, Thomas, Helen, Ross, Stella, Stella, Thomas, Corey, Ross, Ross, Elsie, Sullivan, Kaylie, Tommy, Chaya, Kaylie, Hassan, Madalyn, Jasiah, Tommy, Stella, Skyla, Skyla, Tommy, Chaya, Elsie, Helen, Patience, Skyla, Elsie, Skyla, Chaya, Dangelo, Kamden, Helen, Jeramiah, Jeramiah, Helen, Chaya, Hassan, Elsie, Madalyn, Yamilet, Sullivan, Tommy, Yamilet, Thomas, Dangelo, Kaylie, Elsie, Ross, Dangelo, Jeramiah, Jeramiah, Patience, Ross , Madalyn, Dangelo, Elsie, Sullivan, Chaya, Dangelo, Stella, Madalyn, Elsie, Tommy, Ross, Kamden, Skyla, Thomas, Kamden, Skyla, Sullivan, Elsie, Tommy, Patience, Dangelo, Stella, Elsie, Stella, Kamden, Yusuf, Stella, Ross, Sullivan, Sullivan, Chaya, Patience, Kamden, Tommy, Yusuf, Sullivan, Ross, Elsie, Skyla, Stella, Stella, Dangelo, Yusuf, Yusuf, Kamden, Madalyn, Jasiah, Madalyn, Kamden, Thomas, Dangelo, Stella, Sullivan, Helen, Patience, Jeramiah, Corey, Elsie, Chaya, Ross, Sullivan, Helen, Yamilet, Jasiah, Jasiah, Hassan, Kamden, Dangelo, Corey, Yusuf, Madalyn, Kamden, Madalyn, Ross, Hassan, Elsie, Chaya, Jeramiah, Ross, Helen, Chaya, Elsie, Patience, Madalyn, Elsie, Helen, Helen, Helen, Jasiah, Dangelo, Ross, Jeramiah, Sullivan, Hassan, Jasiah, Patience, Ross, Kaylie, Chaya, Kamden, Thomas, Elsie, Corey, Hassan, Thomas, Jeramiah, Yamilet, Corey, Patience, Jasiah, Jasiah, Hassan, Kaylie, Thomas, Yamilet, Yusuf, Tommy, Tommy, Jeramiah, Corey, Dangelo, Skyla, Thomas, Thomas, Jasiah, Tommy, Dangelo, Helen, Jeramiah, Dangelo, Patience, Skyla, Corey, Kaylie, Kaylie, Ross, Jasiah, Sullivan, Skyla, Kaylie, Thomas, Jeramiah, Hassan, Skyla, Stella, Dangelo, Tommy, Kamden, Kaylie, Chaya, Helen, Yusuf, Jeramiah, Sullivan, Jeramiah, Jasiah, Stella, Yamilet, Patience, Dangelo, Dangelo, Yamilet, Helen, Ross, Yusuf, Tommy, Skyla, Hassan, Patience, Corey, Yusuf, Thomas, Kamden, Corey, Stella, Chaya, Tommy, Stella, Elsie, Skyla, Dangelo, Kamden, Patience, Jeramiah, Yusuf, Skyla, Chaya, Thomas, Chaya, Ross, Yusuf, Elsie, Dangelo, Yamilet, Sullivan, Yusuf, Stella, Dangelo, Elsie, Stella, Skyla, Yamilet, Tommy, Corey, Corey, Tommy, Kaylie, Patience, Elsie, Elsie, Kamden, Corey, Sullivan, Corey, Thomas, Jasiah, Kaylie, Dangelo, Jeramiah, Yusuf, Madalyn, Thomas, Corey, Ross, Tommy, Jasiah, Madalyn, Hassan, Corey, Dangelo, Yusuf, Thomas, Tommy, Jasiah, Sullivan, Kaylie, Elsie, Madalyn, Kaylie, Thomas, Madalyn, Jasiah, Sullivan, Kamden, Chaya, Hassan, Ross, Chaya, Yamilet, Chaya, Stella, Tommy, Jasiah, Jeramiah, Ross , Thomas, Sullivan, Madalyn, Jeramiah, Tommy, Skyla, Skyla, Corey, Corey, Ross , Yamilet, Sullivan, Kaylie, Hassan, Jasiah, Madalyn, Dangelo, Dangelo, Stella, Patience, Elsie, Dangelo, Skyla, Elsie, Elsie, Sullivan, Yusuf, Kamden, Skyla, Yamilet, Hassan, Chaya, Kamden, Tommy, Sullivan, Madalyn, Elsie, Tommy, Tommy, Ross , Tommy, Thomas, Thomas, Corey, Patience, Skyla, Corey, Jasiah, Sullivan, Kamden, Jasiah, Ross , Yamilet, Corey, Kamden, Chaya, Tommy, Dangelo

The Raw data 03

Yusuf, Chaya, Thomas, Skyla, Kamden, Jeramiah, Elsie, Jasiah, Yamilet, Jasiah, Thomas, Yusuf, Elsie, Corey, Hassan, Kaylie, Corey, Yamilet, Corey, Yamilet, Chaya, Stella, Kaylie, Thomas, Yamilet, Sullivan, Corey, Yusuf, Chaya, Elsie, Elsie, Jasiah, Stella, Patience, Jeramiah, Stella, Tommy, Corey, Yusuf, Hassan, Hassan, Stella, Chaya, Yamilet, Tommy, Elsie, Kamden, Kaylie, Stella, Corey, Hassan, Madalyn, Thomas, Dangelo, Jeramiah, Patience, Tommy, Sullivan, Yusuf, Patience, Hassan, Jasiah, Elsie, Dangelo, Tommy, Stella, Corey, Madalyn, Jeramiah, Sullivan, Ross, Tommy, Corey, Jasiah, Helen, Jeramiah, Sullivan, Yusuf, Sullivan, Kamden, Jeramiah, Thomas, Yusuf, Thomas, Madalyn, Jasiah, Tommy, Tommy, Hassan, Yusuf, Tommy, Skyla, Stella, Thomas, Yusuf, Tommy, Madalyn, Hassan, Stella, Ross, Madalyn, Dangelo, Dangelo, Hassan, Patience, Elsie, Helen, Jasiah, Stella, Jasiah, Madalyn, Skyla, Corey, Stella, Corey, Madalyn, Thomas, Hassan, Yamilet, Elsie, Corey, Kaylie, Helen, Jasiah, Chaya, Patience, Kamden, Skyla, Thomas, Dangelo, Madalyn, Thomas, Helen, Ross, Stella, Stella, Thomas, Corey, Ross, Ross, Elsie, Sullivan, Kaylie, Tommy, Chaya, Kaylie, Hassan, Madalyn, Jasiah, Tommy, Stella, Skyla, Skyla, Tommy, Chaya, Elsie, Helen, Patience, Skyla, Elsie, Skyla, Chaya, Dangelo, Kamden, Helen, Jeramiah, Jeramiah, Helen, Chaya, Hassan, Elsie, Madalyn, Yamilet, Sullivan, Tommy, Yamilet, Thomas, Dangelo, Kaylie, Elsie, Ross, Dangelo, Jeramiah, Jeramiah, Patience, Ross , Madalyn, Dangelo, Elsie, Sullivan, Chaya, Dangelo, Stella, Madalyn, Elsie, Tommy, Ross, Kamden, Skyla, Thomas, Kamden, Skyla, Sullivan, Elsie, Tommy, Patience, Dangelo, Stella, Elsie, Stella, Kamden, Yusuf, Stella, Ross, Sullivan, Sullivan, Chaya, Patience, Kamden, Tommy, Yusuf, Sullivan, Ross, Elsie, Skyla, Stella, Stella, Dangelo, Yusuf, Yusuf, Kamden, Madalyn, Jasiah, Madalyn, Kamden, Thomas, Dangelo, Stella, Sullivan, Helen, Patience, Jeramiah, Corey, Elsie, Chaya, Ross, Sullivan, Helen, Yamilet, Jasiah, Jasiah, Hassan, Kamden, Dangelo, Corey, Yusuf, Madalyn, Kamden, Madalyn, Ross, Hassan, Elsie, Chaya, Jeramiah, Ross, Helen, Chaya, Elsie, Patience, Madalyn, Elsie, Helen, Helen, Helen, Jasiah, Dangelo, Ross, Jeramiah, Sullivan, Hassan, Jasiah, Patience, Ross, Kaylie, Chaya, Kamden, Thomas, Elsie, Corey, Hassan, Thomas, Jeramiah, Yamilet, Corey, Patience, Jasiah, Jasiah, Hassan, Kaylie, Thomas, Yamilet, Yusuf, Tommy, Tommy, Jeramiah, Corey, Dangelo, Skyla, Thomas, Thomas, Jasiah, Tommy, Dangelo, Helen, Jeramiah, Dangelo, Patience, Skyla, Corey, Kaylie, Kaylie, Ross, Jasiah, Sullivan, Skyla, Kaylie, Thomas, Jeramiah, Hassan, Skyla, Stella, Dangelo, Tommy, Kamden, Kaylie, Chaya, Helen, Yusuf, Jeramiah, Sullivan, Jeramiah, Jasiah, Stella, Yamilet, Patience, Dangelo, Dangelo, Yamilet, Helen, Ross, Yusuf, Tommy, Skyla, Hassan, Patience, Corey, Yusuf, Thomas, Kamden, Corey, Stella, Chaya, Tommy, Stella, Elsie, Skyla, Dangelo, Kamden, Patience, Jeramiah, Yusuf, Skyla, Chaya, Thomas, Chaya, Ross, Yusuf, Elsie, Dangelo, Yamilet, Sullivan, Yusuf, Stella, Dangelo, Elsie, Stella, Skyla, Yamilet, Tommy, Corey, Corey, Tommy, Kaylie, Patience, Elsie, Elsie, Kamden, Corey, Sullivan, Corey, Thomas, Jasiah, Kaylie, Dangelo, Jeramiah, Yusuf, Madalyn, Thomas, Corey, Ross, Tommy, Jasiah, Madalyn, Hassan, Corey, Dangelo, Yusuf, Thomas, Tommy, Jasiah, Sullivan, Kaylie, Elsie, Madalyn, Kaylie, Thomas, Madalyn, Jasiah, Sullivan, Kamden, Chaya, Hassan, Ross, Chaya, Yamilet, Chaya, Stella, Tommy, Jasiah, Jeramiah, Ross , Thomas, Sullivan, Madalyn, Jeramiah, Tommy, Skyla, Skyla, Corey, Corey, Ross , Yamilet, Sullivan, Kaylie, Hassan, Jasiah, Madalyn, Dangelo, Dangelo, Stella, Patience, Elsie, Dangelo, Skyla, Elsie, Elsie, Sullivan, Yusuf, Kamden, Skyla, Yamilet, Hassan, Chaya, Kamden, Tommy, Sullivan, Madalyn, Elsie, Tommy, Tommy, Ross , Tommy, Thomas, Corey, Patience, Skyla, Corey, Jasiah, Sullivan, Kamden, Jasiah, Ross , Yamilet, Corey, Kamden, Chaya, Tommy, Dangelo

The Raw data 04

Yusuf, Chaya, Thomas, Skyla, Kamden, Jeramiah, Elsie, Jasiah, Yamilet, Jasiah, Thomas, Yusuf, Elsie, Corey, Hassan, Kaylie, Corey, Yamilet, Corey, Yamilet, Chaya, Stella, Kaylie, Thomas, Yamilet, Sullivan, Corey, Yusuf, Chaya, Elsie, Elsie, Jasiah, Stella, Patience, Jeramiah, Stella, Tommy, Corey, Yusuf, Hassan, Hassan, Stella, Chaya, Yamilet, Tommy, Elsie, Kamden, Kaylie, Stella, Corey, Hassan, Madalyn, Thomas, Dangelo, Jeramiah, Patience, Tommy, Sullivan, Yusuf, Patience, Hassan, Jasiah, Elsie, Dangelo, Tommy, Stella, Corey, Madalyn, Jeramiah, Sullivan, Ross, Tommy, Corey, Jasiah, Helen, Jeramiah, Sullivan, Yusuf, Sullivan, Kamden, Jeramiah, Thomas, Yusuf, Thomas, Madalyn, Jasiah, Tommy, Tommy, Hassan, Yusuf, Tommy, Skyla, Stella, Thomas, Yusuf, Tommy, Madalyn, Hassan, Stella, Ross, Madalyn, Dangelo, Dangelo, Hassan, Patience, Elsie, Helen, Jasiah, Stella, Jasiah, Madalyn, Skyla, Corey, Stella, Corey, Madalyn, Thomas, Hassan, Yamilet, Elsie, Corey, Kaylie, Helen, Jasiah, Chaya, Patience, Kamden, Skyla, Thomas, Dangelo, Madalyn, Thomas, Helen, Ross, Stella, Stella, Thomas, Corey, Ross, Ross, Elsie, Sullivan, Kaylie, Tommy, Chaya, Kaylie, Hassan, Madalyn, Jasiah, Tommy, Stella, Skyla, Skyla, Tommy, Chaya, Elsie, Helen, Patience, Skyla, Elsie, Skyla, Chaya, Dangelo, Kamden, Helen, Jeramiah, Jeramiah, Helen, Chaya, Hassan, Elsie, Madalyn, Yamilet, Sullivan, Tommy, Yamilet, Thomas, Dangelo, Kaylie, Elsie, Ross, Dangelo, Jeramiah, Jeramiah, Patience, Ross , Madalyn, Dangelo, Elsie, Sullivan, Chaya, Dangelo, Stella, Madalyn, Elsie, Tommy, Ross, Kamden, Skyla, Thomas, Kamden, Skyla, Sullivan, Elsie, Tommy, Patience, Dangelo, Stella, Elsie, Stella, Kamden, Yusuf, Stella, Ross, Sullivan, Sullivan, Chaya, Patience, Kamden, Tommy, Yusuf, Sullivan, Ross, Elsie, Skyla, Stella, Stella, Dangelo, Yusuf, Yusuf, Kamden, Madalyn, Jasiah, Madalyn, Kamden, Thomas, Dangelo, Stella, Sullivan, Helen, Patience, Jeramiah, Corey, Elsie, Chaya, Ross, Sullivan, Helen, Yamilet, Jasiah, Jasiah, Hassan, Kamden, Dangelo, Corey, Yusuf, Madalyn, Kamden, Madalyn, Ross, Hassan, Elsie, Chaya, Jeramiah, Ross, Helen, Chaya, Elsie, Patience, Madalyn, Elsie, Helen, Helen, Helen, Jasiah, Dangelo, Ross, Jeramiah, Sullivan, Hassan, Jasiah, Patience, Ross, Kaylie, Chaya, Kamden, Thomas, Elsie, Corey, Hassan, Thomas, Jeramiah, Yamilet, Corey, Patience, Jasiah, Jasiah, Hassan, Kaylie, Thomas, Yamilet, Yusuf, Tommy, Tommy, Jeramiah, Corey, Dangelo, Skyla, Thomas, Thomas, Jasiah, Tommy, Dangelo, Helen, Jeramiah, Dangelo, Patience, Skyla, Corey, Kaylie, Kaylie, Ross, Jasiah, Sullivan, Skyla, Kaylie, Thomas, Jeramiah, Hassan, Skyla, Stella, Dangelo, Tommy, Kamden, Kaylie, Chaya, Helen, Yusuf, Jeramiah, Sullivan, Jeramiah, Jasiah, Stella, Yamilet, Patience, Dangelo, Dangelo, Yamilet, Helen, Ross, Yusuf, Tommy, Skyla, Hassan, Patience, Corey, Yusuf, Thomas, Kamden, Corey, Stella, Chaya, Tommy, Stella, Elsie, Skyla, Dangelo, Kamden, Patience, Jeramiah, Yusuf, Skyla, Chaya, Thomas, Chaya, Ross, Yusuf, Elsie, Dangelo, Yamilet, Sullivan, Yusuf, Stella, Dangelo, Elsie, Stella, Skyla, Yamilet, Tommy, Corey, Corey, Tommy, Kaylie, Patience, Elsie, Elsie, Kamden, Corey, Sullivan, Corey, Thomas, Jasiah, Kaylie, Dangelo, Jeramiah, Yusuf, Madalyn, Thomas, Corey, Ross, Tommy, Jasiah, Madalyn, Hassan, Corey, Dangelo, Yusuf, Thomas, Tommy, Jasiah, Sullivan, Kaylie, Elsie, Madalyn, Kaylie, Thomas, Madalyn, Jasiah, Sullivan, Kamden, Chaya, Hassan, Ross, Chaya, Yamilet, Chaya, Stella, Tommy, Jasiah, Jeramiah, Ross , Thomas, Sullivan, Madalyn, Jeramiah, Tommy, Skyla, Skyla, Corey, Corey, Ross , Yamilet, Sullivan, Kaylie, Hassan, Jasiah, Madalyn, Dangelo, Dangelo, Stella, Patience, Elsie, Dangelo, Skyla, Elsie, Elsie, Sullivan, Yusuf, Kamden, Skyla, Yamilet, Hassan, Chaya, Kamden, Tommy, Sullivan, Madalyn, Elsie, Tommy, Tommy, Ross , Tommy, Thomas, Corey, Patience, Skyla, Corey, Jasiah, Sullivan, Kamden, Jasiah, Ross , Yamilet, Corey, Kamden, Chaya, Tommy, Dangelo

Two Groups

Part 1 of 2 (250 words)

yusuf thomas kamden elsie yamilet thomas elsie hassan corey corey chaya kaylie yamilet corey chaya elsie stella jeramiah tommy yusuf hassan chaya tommy kamden stella hassan thomas jeramiah tommy yusuf hassan elsie tommy corey jeramiah ross corey helen sullivan sullivan jeramiah yusuf madalyn tommy hassan tommy stella yusuf madalyn stella madalyn dangelo patience helen stella madalyn corey corey thomas yamilet corey helen chaya kamden thomas madalyn helen stella thomas ross elsie kaylie chaya hassan jasiah stella skyla chaya helen skyla skyla dangelo helen jeramiah chaya elsie yamilet tommy thomas kaylie ross jeramiah patience madalyn elsie chaya stella elsie ross skyla kamden sullivan tommy dangelo elsie kamden stella sullivan chaya kamden yusuf ross skyla stella yusuf kamden jasiah kamden dangelo sullivan patience corey chaya sullivan yamilet jasiah kamden corey madalyn madalyn hassan chaya ross chaya patience elsie helen jasiah ross sullivan jasiah patience kaylie kamden elsie hassan jeramiah corev jasjah hassan thomas yusuf tommy corev skyla thomas tommy helen dangelo skyla kaylie ross sullivan kaylie jeramiah skyla dangelo kamden chaya yusuf sullivan jasiah yamilet dangelo yamilet ross tommy hassan corey thomas corey chaya stella skyla kamden jeramiah skyla thomas ross elsie yamilet yusuf dangelo stella yamilet corey tommy patience elsie corey corey jasiah dangelo yusuf thomas ross jasiah hassan dangelo thomas jasiah kaylie madalyn thomas jasiah kamden hassan chaya chaya tommy jeramiah thomas madalyn tommy skyla corey yamilet kaylie jasiah dangelo stella elsie skyla elsie yusuf skyla hassan kamden sullivan elsie tommy tommy thomas patience corey sullivan jasiah vamilet kamden tommy

Part 2 of 2 (250 words)

chaya skyla jeramiah jasiah jasiah yusuf corey kaylie yamilet yamilet stella thomas sullivan yusuf elsie jasiah patience stella corey hassan stella yamilet elsie kaylie corey madalyn dangelo patience sullivan patience jasiah dangelo stella madalyn sullivan tommy jasiah jeramiah yusuf kamden thomas thomas jasiah tommy yusuf skyla thomas tommy hassan ross dangelo hassan elsie jasiah jasiah skyla stella madalyn hassan elsie kaylie jasiah patience skyla dangelo thomas ross stella corev ross sullivan tommy kaylie madalyn tommy skyla tommy elsie patience elsie chava kamden jeramiah helen hassan madalyn sullivan yamilet dangelo elsie dangelo jeramiah ross dangelo sullivan dangelo madalyn tommy kamden thomas skyla elsie patience stella stella yusuf ross sullivan patience tommy sullivan elsie stella dangelo yusuf madalyn madalyn thomas stella helen jeramiah elsie ross helen jasiah hassan dangelo yusuf kamden ross elsie jeramiah helen elsie madalyn helen helen dangelo jeramiah hassan jasiah ross chaya thomas corey thomas yamilet patience jasiah kaylie yamilet tommy jeramiah dangelo thomas jasiah dangelo jeramiah patience corey kaylie jasiah skyla thomas hassan stella tommy kaylie helen jeramiah jeramiah stella patience dangelo helen yusuf skyla patience yusuf kamden stella tommy elsie dangelo patience yusuf chaya chaya yusuf dangelo sullivan stella elsie skyla tommy corey kaylie elsie kamden sullivan thomas kaylie jeramiah madalyn corey tommy madalyn corey yusuf tommy sullivan elsie kaylie madalyn sullivan chaya ross yamilet stella jasiah ross sullivan jeramiah skyla corey ross sullivan hassan madalyn dangelo patience dangelo elsie sullivan kamden yamilet chava tommy madalyn tommy ross thomas corey skyla jasiah kamden ross corev chava dangelo

Four Groups

Part 1 of 4 (125 words)

yusuf kamden yamilet elsie corey chaya yamilet chaya stella tommy hassan tommy stella thomas tommy hassan tommy jeramiah corey sullivan jeramiah madalyn hassan stella madalyn madalyn patience stella corey thomas corey chaya thomas helen thomas elsie chaya jasiah skyla helen skyla helen chaya yamilet thomas ross patience elsie stella ross kamden tommy elsie stella chaya yusuf skyla yusuf jasiah dangelo patience chaya yamilet kamden madalyn hassan ross patience helen ross jasiah kaylie elsie jeramiah jasiah thomas tommy skyla tommy dangelo kaylie sullivan jeramiah dangelo chaya sullivan yamilet yamilet tommy corey corey stella kamden skyla ross yamilet dangelo yamilet tommy elsie corey dangelo thomas jasiah dangelo jasiah madalyn jasiah hassan chaya jeramiah madalyn skyla yamilet jasiah stella skyla yusuf hassan sullivan tommy thomas corey jasiah kamden

Part 2 of 4 (125 words)

chaya jeramiah jasiah corey yamilet stella sullivan elsie patience corey stella elsie corey dangelo sullivan jasiah stella sullivan jasiah yusuf thomas jasiah yusuf thomas hassan dangelo elsie jasiah stella hassan kaylie patience dangelo ross corey sullivan kaylie tommy tommy patience chaya jeramiah hassan sullivan dangelo dangelo ross sullivan madalyn kamden skyla patience stella ross patience sullivan stella yusuf madalyn stella jeramiah ross jasiah dangelo kamden elsie helen madalyn helen jeramiah jasiah chaya corey yamilet jasiah yamilet jeramiah thomas dangelo patience kaylie skyla hassan tommy helen jeramiah patience helen skyla yusuf stella elsie patience chaya yusuf sullivan elsie tommy kaylie kamden thomas jeramiah corey madalyn yusuf sullivan kaylie sullivan ross stella ross jeramiah corey sullivan madalyn patience elsie kamden chaya madalyn ross corey jasiah ross chaya

Part 3 of 4 (125 words)

thomas elsie thomas hassan corey kaylie corey elsie jeramiah yusuf chaya kamden hassan jeramiah yusuf elsie corey ross helen sullivan yusuf tommy tommy yusuf stella dangelo helen madalyn corey yamilet helen kamden madalyn stella ross kaylie hassan stella chaya skyla dangelo jeramiah elsie tommy kaylie jeramiah madalyn chaya elsie skyla sullivan dangelo kamden sullivan kamden ross stella kamden kamden sullivan corey sullivan jasiah corey madalyn chaya chaya elsie jasiah sullivan patience kamden hassan corey hassan yusuf corey thomas helen skyla ross kaylie skyla kamden yusuf jasiah dangelo ross hassan thomas chaya skyla jeramiah thomas elsie yusuf stella corey patience corey jasiah yusuf ross hassan thomas kaylie thomas kamden chaya tommy thomas tommy corey kaylie dangelo elsie elsie skyla kamden elsie tommy patience sullivan yamilet tommy

Part 4 of 4 (125 words)

skyla jasiah yusuf kaylie yamilet thomas yusuf jasiah stella hassan yamilet kaylie madalyn patience patience dangelo madalyn tommy jeramiah kamden thomas tommy skyla tommy ross hassan jasiah skyla madalyn elsie jasiah skyla thomas stella ross tommy madalyn skyla elsie elsie kamden helen madalyn yamilet elsie jeramiah dangelo dangelo tommy thomas elsie stella yusuf sullivan tommy elsie dangelo madalyn thomas helen elsie helen hassan yusuf ross jeramiah elsie helen dangelo hassan ross thomas thomas patience kaylie tommy dangelo jasiah jeramiah corey jasiah thomas stella kaylie jeramiah stella dangelo yusuf patience kamden tommy dangelo yusuf chaya dangelo stella skyla corey elsie sullivan kaylie madalyn tommy corey tommy elsie madalyn chaya yamilet jasiah sullivan skyla ross hassan dangelo dangelo sullivan yamilet tommy tommy thomas skyla kamden corey dangelo

Five Groups

Part 1 of 5 (100 words)

yusuf jeramiah thomas kaylie chaya sullivan elsie stella hassan elsie hassan patience hassan stella ross jeramiah jeramiah jasiah tommy tommy madalyn elsie madalyn madalyn corey patience madalyn stella elsie kaylie stella elsie skyla jeramiah elsie yamilet ross ross chaya tommy kamden patience kamden sullivan yusuf stella kamden thomas patience ross jasiah yusuf hassan helen elsie dangelo jasiah chaya hassan patience thomas jeramiah thomas jeramiah kaylie skyla skyla kaylie sullivan patience ross patience corey elsie jeramiah chaya yamilet elsie corey elsie corey jeramiah ross corey jasiah kaylie kamden yamilet jeramiah jeramiah corey hassan stella elsie skyla tommy tommy corey sullivan corey

Part 2 of 5 (100 words)

chaya elsie yusuf corey stella corey jasiah tommy stella kamden madalyn tommy jasiah corey tommy sullivan thomas tommy skyla madalyn dangelo helen skyla thomas kaylie kamden thomas thomas sullivan hassan skyla helen chaya jeramiah madalyn thomas dangelo madalyn dangelo ross skyla dangelo yusuf chaya sullivan stella madalyn dangelo jeramiah sullivan hassan madalyn elsie chaya helen ross jasiah kamden thomas jasiah yamilet corey jasiah dangelo kaylie kaylie stella chaya jeramiah dangelo yusuf corey stella skyla yusuf ross sullivan stella corey elsie thomas yusuf tommy dangelo sullivan thomas chaya chaya ross tommy ross jasiah patience elsie yamilet sullivan ross patience kamden kamden

Part 3 of 5 (100 words)

thomas jasiah elsie yamilet kaylie yusuf stella corey chaya kaylie thomas sullivan elsie madalyn corey yusuf yusuf tommy stella hassan dangelo jasiah corey hassan helen skyla helen corey kaylie madalyn skyla patience dangelo helen yamilet dangelo jeramiah dangelo stella kamden sullivan stella stella patience ross dangelo jasiah stella corey helen kamden kamden chaya elsie helen jeramiah patience thomas jeramiah jasiah yusuf dangelo tommy patience ross thomas dangelo helen jasiah dangelo tommy yusuf chaya dangelo skyla yusuf yusuf skyla tommy kamden jasiah madalyn jasiah yusuf kaylie madalyn hassan stella thomas skyla yamilet madalyn elsie sullivan hassan madalyn tommy skyla jasiah chaya

Part 4 of 5 (100 words)

skyla yamilet corey corey thomas chaya patience yusuf yamilet stella dangelo yusuf dangelo jeramiah jasiah sullivan thomas hassan thomas stella hassan stella stella yamilet jasiah thomas ross ross tommy jasiah tommy skyla kamden chaya sullivan kaylie jeramiah elsie madalyn skyla elsie elsie ross kamden elsie yusuf madalyn sullivan elsie yamilet dangelo madalyn jeramiah patience helen sullivan ross elsie yamilet hassan tommy skyla dangelo skyla jasiah jeramiah tommy yusuf stella yamilet skyla thomas tommy kamden chaya elsie stella yamilet kaylie corey kaylie thomas madalyn thomas elsie jasiah ross tommy sullivan skyla sullivan dangelo dangelo yusuf chaya elsie thomas corey ross tommy

Part 5 of 5 (100 words)

kamden jasiah hassan yamilet yamilet elsie jeramiah hassan tommy corey jeramiah patience tommy sullivan helen kamden madalyn yusuf yusuf ross patience jasiah corey elsie chaya dangelo stella ross chaya tommy chaya elsie helen hassan tommy elsie patience sullivan elsie thomas tommy stella sullivan tommy skyla yusuf kamden helen chaya jasiah corey ross ross madalyn jasiah hassan kaylie corey corey kaylie tommy thomas helen corey sullivan hassan kamden jeramiah yamilet helen hassan kamden stella patience thomas dangelo dangelo tommy patience sullivan dangelo corey hassan tommy madalyn sullivan chaya jasiah madalyn corey kaylie dangelo skyla kamden kamden tommy thomas jasiah yamilet dangelo

Ten Groups

Part 1 of 10 (50 words)

yusuf thomas chaya elsie hassan hassan ross jeramiah tommy madalyn madalyn corey madalyn elsie stella skyla elsie ross chaya kamden kamden yusuf kamden patience jasiah hassan elsie jasiah hassan thomas kaylie skyla sullivan ross corey jeramiah yamilet corey corey ross jasiah kamden jeramiah corey stella skyla tommy sullivan

Part 2 of 10 (50 words)

chaya yusuf stella jasiah stella madalyn jasiah tommy thomas skyla dangelo skyla kaylie thomas sullivan skyla chaya madalyn dangelo dangelo skyla yusuf sullivan madalyn jeramiah hassan elsie helen jasiah thomas yamilet jasiah kaylie stella jeramiah yusuf stella yusuf sullivan corey thomas tommy sullivan chaya ross ross patience yamilet ross kamden

Part 3 of 10 (50 words)

thomas elsie kaylie stella chaya thomas elsie corey yusuf stella dangelo corey helen helen kaylie skyla dangelo yamilet jeramiah stella sullivan stella ross jasiah corey kamden chaya helen patience jeramiah yusuf tommy ross dangelo jasiah tommy chaya skyla yusuf tommy jasiah jasiah kaylie hassan thomas yamilet elsie hassan tommy jasiah

Part 4 of 10 (50 words)

skyla corey thomas patience yamilet dangelo dangelo jasiah thomas thomas hassan stella jasiah ross tommy tommy kamden sullivan jeramiah madalyn elsie ross elsie madalyn elsie dangelo jeramiah helen ross yamilet tommy dangelo jasiah tommy stella skyla tommy chaya stella kaylie kaylie madalyn elsie ross sullivan sullivan dangelo chaya thomas ross

Part 5 of 10 (50 words)

kamden hassan yamilet jeramiah tommy jeramiah tommy helen madalyn yusuf patience corey chaya stella chaya chaya helen tommy patience elsie tommy sullivan skyla kamden chaya corey ross jasiah kaylie corey tommy helen sullivan kamden yamilet hassan stella thomas dangelo patience dangelo hassan madalyn chaya madalyn kaylie skyla kamden thomas yamilet

Part 6 of 10 (50 words)

jeramiah kaylie sullivan stella elsie patience stella jeramiah jasiah tommy elsie madalyn patience stella kaylie elsie jeramiah yamilet ross tommy patience sullivan stella thomas ross yusuf helen dangelo chaya patience jeramiah jeramiah skyla kaylie patience patience elsie chaya elsie elsie jeramiah corey kaylie yamilet jeramiah hassan elsie tommy corey corey

Part 7 of 10 (50 words)

elsie corey corey tommy kamden tommy corey sullivan tommy madalyn helen thomas kamden thomas hassan helen jeramiah thomas madalyn ross dangelo chaya stella dangelo sullivan madalyn chaya ross kamden jasiah corey dangelo kaylie chaya dangelo corey skyla ross stella elsie yusuf dangelo thomas chaya tommy jasiah elsie sullivan patience kamden

Part 8 of 10 (50 words)

jasiah yamilet yusuf corey kaylie sullivan madalyn yusuf tommy hassan jasiah hassan skyla corey madalyn patience helen dangelo dangelo kamden stella patience dangelo stella helen kamden elsie jeramiah thomas jasiah dangelo patience thomas helen dangelo yusuf dangelo yusuf skyla kamden madalyn yusuf madalyn stella skyla madalyn sullivan madalyn skyla chaya

Part 9 of 10 (50 words)

yamilet corey chaya yusuf stella yusuf jeramiah sullivan hassan stella stella yamilet thomas ross jasiah skyla chaya kaylie elsie skyla elsie kamden yusuf sullivan yamilet madalyn patience sullivan elsie hassan skyla skyla jeramiah yusuf yamilet thomas kamden elsie yamilet corey thomas thomas jasiah tommy skyla dangelo yusuf elsie corey tommy

Part 10 of 10 (50 words)

jasiah yamilet elsie hassan corey patience sullivan kamden yusuf ross jasiah elsie dangelo ross tommy elsie hassan elsie sullivan thomas stella tommy yusuf helen jasiah ross madalyn hassan corey kaylie thomas corey hassan jeramiah helen kamden patience dangelo tommy sullivan corey tommy sullivan jasiah corey dangelo kamden tommy jasiah dangelo

Twenty Groups

Part 1 of 20 (25 words)

yusuf chaya hassan jaramiah madalyn corey elsie skyla ross kamden yusuf patience hassan jasiah thomas kaylie sullivan corey yamilet corey jasiah jeramiah stella tommy

Part 2 of 20 (25 words)

chaya stella stella jasiah thomas dangelo kaylie sullivan chaya dangelo skyla sullivan jeramiah elsie jasiah yamilet kaylie jeramiah stella sullivan thomas sullivan ross patience ross

Part 3 of 20 (25 words)

thomas kaylie chaya elsie yusuf dangelo helen kaylie dangelo jeramiah sullivan ross corey chaya patience yusuf ross jasiah chaya yusuf jasiah kaylie thomas elsie tommy

Part 4 of 20 (25 words)

skyla thomas yamilet dangelo thomas hassan jasiah tommy kamden jeramiah elsie elsie elsie jeramiah ross tommy jasiah stella tommy stella kaylie elsie sullivan dangelo thomas

Part 5 of 20 (25 words)

kamden yamilet tommy tommy madalyn patience chaya chaya helen patience tommy skyla chaya ross kaylie tommy sullivan yamilet stella dangelo dangelo madalyn madalyn skyla thomas

Part 6 of 20 (25 words)

jeramiah sullivan elsie stella jasiah elsie patience kaylie jeramiah ross patience stella ross helen chaya jeramiah skyla patience elsie jeramiah kaylie jeramiah elsie corey

Part 7 of 20 (25 words)

elsie corey kamden corey tommy helen kamden hassan jeramiah madalyn dangelo stella sullivan chaya kamden corey kaylie dangelo skyla stella yusuf thomas tommy elsie patience

Part 8 of 20 (25 words)

jasiah yusuf kaylie madalyn tommy jasiah skyla madalyn helen dangelo stella dangelo helen elsie thomas dangelo thomas dangelo dangelo skyla madalyn madalyn skyla sullivan skyla

Part 9 of 20 (25 words)

yamilet chaya stella jeramiah hassan stella thomas jasiah chaya elsie elsie yusuf yamilet patience elsie skyla jeramiah yamilet kamden yamilet thomas jasiah skyla yusuf corey

Part 10 of 20 (25 words)

jasiah elsie corey sullivan yusuf jasiah dangelo tommy hassan sullivan stella yusuf jasiah madalyn corey thomas hassan helen patience tommy corey sullivan corey kamden jasiah

Part 11 of 20 (25 words)

thomas elsie hassan ross tommy madalyn madalyn stella elsie chaya kamden kamden jasiah elsie hassan thomas skyla ross jeramiah corey ross kamden corey skyla sullivan

Part 12 of 20 (25 words)

yusuf jasiah madalyn tommy skyla skyla thomas skyla madalyn dangelo yusuf madalyn hassan helen thomas jasiah stella yusuf yusuf corey tommy chaya ross yamilet kamden

Part 13 of 20 (25 words)

elsie stella thomas corey stella corey helen skyla yamilet stella stella jasiah kamden helen jeramiah tommy dangelo tommy skyla tommy jasiah hassan yamilet hassan jasiah

Part 14 of 20 (25 words)

corey patience dangelo jasiah thomas stella ross tommy sullivan madalyn ross madalyn dangelo helen yamilet dangelo tommy skyla chaya kaylie madalyn ross sullivan chaya ross

Part 15 of 20 (25 words)

hassan jeramiah jeramiah helen yusuf corey stella chaya tommy elsie sullivan kamden corey jasiah corey helen kamden hassan thomas patience hassan chaya kaylie kamden yamilet

Part 16 of 20 (25 words)

kaylie stella patience jeramiah tommy madalyn stella elsie yamilet tommy sullivan thomas yusuf dangelo patience jeramiah kaylie patience chaya elsie corey yamilet hassan tommy corey

Part 17 of 20 (25 words)

corey tommy tommy sullivan madalyn thomas thomas helen thomas ross chaya dangelo madalyn ross jasiah dangelo chaya corey ross elsie dangelo chaya jasiah sullivan kamden

Part 18 of 20 (25 words)

yamilet corey sullivan yusuf hassan hassan corey patience dangelo kamden patience stella kamden jeramiah jasiah patience helen yusuf yusuf kamden yusuf stella madalyn madalyn chaya

Part 19 of 20 (25 words)

corey yusuf yusuf sullivan stella yamilet ross skyla kaylie skyla kamden sullivan madalyn sullivan hassan skyla yusuf thomas elsie corey thomas tommy dangelo elsie tommy

Part 20 of 20 (25 words)

yamilet hassan patience kamden ross elsie ross elsie elsie thomas tommy helen ross hassan kaylie corey jeramiah kamden dangelo sullivan tommy jasiah dangelo tommy dangelo