1. 

| Add the word: | Calculation | Inverse Operation Check |
| :--- | :--- | :--- |
| most | $141+4=145$ | $145-4=141$ |
| grand | $141+5=146$ | $146-5=141$ |
| welcome | $141+7=148$ | $148-7=141$ |


| Remove the word: | Calculation | Inverse Operation Check |
| :--- | :--- | :--- |
| in | $141-2=139$ | $139+2=141$ |
| generous | $141-8=133$ | $133+8=141$ |
| celebrate | $141-9=132$ | $132+9=141$ |

2. $455+30=485$; he has subtracted 30 instead of adding 30 $455-30=425$; he has subtracted 3 ones instead of 3 tens
3. $365+100=465 \quad 365+400=765$
$365+200=565 \quad 365+500=865$
$365+300=665 \quad 365+600=965$
4. 

| Rugs |  |
| :---: | :---: |
| Already have: | To make 200: |
| Room 1: 190 | 10 |
| Room 2: 150 | 50 |
| Room 3: 130 | 70 |
| Room 4: 160 | 40 |

5. 

| Lamps |  |
| :---: | :---: |
| Already have: | To make 200: |
| Room 1: 191 | 9 |
| Room 2: 196 | 4 |
| Room 3: 193 | 7 |
| Room 4: 192 | 8 |


| Couches |  |
| :---: | :---: |
| Already have: | To make 200: |
| Room 1: 110 | 90 |
| Room 2: 180 | 20 |
| Room 3: 120 | 80 |
| Room 4: 140 | 60 |


| Candles |  |
| :---: | :---: |
| Already have: | To make 400: |
| Room 1: 397 | 3 |
| Room 2: 395 | 5 |
| Room 3: 394 | 6 |
| Room 4: 398 | 2 |

6. Answers will vary but should match up with the increasing quantities depicted in the picture: for example, 10 Sapphires, 40 Rubies and 100 Emeralds.
7. $510-70=440$ chairs can be used to play the game. There are 455 confirmed guests, so he needs another 15 chairs for everyone to be able to play.
8. No. The rule is add 50 not subtract 50 .
9. 

## Answer:

485

- 227 258 females


## Check:

258
$+227$
485
10. There could have been between 215 and 224 children, so: 485-224 = 261 and 485-215 = 270 There could have been between 261 and 270 adults.

