

# Group exercise

Interpreting findings and formulating key messages

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# Agenda

- The basic table
- Group exercise- Identification and investigation of gender issues





# The Building Blocs of the Basic Table

Statistiska centralbyrån  
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## Percentage distribution

	Women	Men
Cat. 1	↓	↓
Cat. 2		
Cat. 3	↓	↓

100 %      100 %

## Sex distribution

	Women	Men	
Cat. 1	→	→	100%
Cat. 2	→	→	100%
Cat. 3	→	→	100%



# Table for gender analysis

## Population aged 16-74 by field of education in Sweden 2013

Field of education	Women	Men
General education	904 346	1 001 775
Teaching methods and teacher education	325 947	103 569
Humanities and arts	200 951	130 947
Social sciences, law, commerce, administration	668 076	411 542
Natural sciences, mathematics and computing	73 853	112 767
Engineering and manufacturing	173 500	1 238 556
Agriculture and forestry, veterinary medicine	45 970	75 753
Health care and nursing, social care	763 297	147 917
Services	214 261	199 366
Unknown	128 565	158 598
Total	3 498 766	3 580 790

Start off with a  
frequency table

Source: Statistics Sweden



# Step 1: Percentage distributions

## Population aged 16-74 by field of education in Sweden 2013

Field of education	Women	Men
General education	904 346	1 001 775
Teaching methods and teacher education	325 947	103 569
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Total	3 498 766	3 580 790

Source: Statistics Sweden

**Number of women in cat. X / Tot. number of women \* 100 =  
= Percentage distribution**

**904 346 / 3 498 766 \* 100 = 25,85%**



# Step 1: Percentage distributions

## Population aged 16-74 by field of education in Sweden 2013

Field of education	Women		Men	
	Number	Per cent	Number	Per cent
General education	904 346	25,85	1 001 775	27,98
Teaching methods and teacher education	325 947	9,32	103 569	2,89
Humanities and arts	200 951	5,74	130 947	3,66
Social sciences, law, commerce, administration	668 076	19,09	411 542	11,49
Natural sciences, mathematics and computing	73 853	2,11	112 767	3,15
Engineering and manufacturing	173 500	4,96	1 238 556	34,59
Agriculture and forestry, veterinary medicine	45 970	1,31	75 753	2,12
Health care and nursing, social care	763 297	21,82	147 917	4,13
Services	214 261	6,12	199 366	5,57
Unknown	128 565	3,67	158 598	4,43
<b>Total</b>	<b>3 498 766</b>	<b>100,00</b>	<b>3 580 790</b>	<b>100,00</b>

Source: Statistics Sweden



# Step 2: Sex distribution

## Population aged 16-74 by field of education in Sweden 2013

Field of education	Women	Men
General education	904 346	1 001 775
Teaching methods and teacher education	325 947	103 569
Humanities and arts	200 951	130 947
Social sciences, law, commerce, administration	668 076	411 542
Natural sciences, mathematics and computing	73 853	112 767
Engineering and manufacturing	173 500	1 238 556
Agriculture and forestry, veterinary medicine	45 970	75 753
Health care and nursing, social care	763 297	147 917
Services	214 261	199 366
Unknown	128 565	158 598
Total	3 498 766	3 580 790

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**Number of women in cat. X /**

**Tot. number of women and men in category X \* 100 =**

**= Sex distribution**

**904 346 / (904 346 + 1 001 775) \* 100 = 47,44%**

# Step 2: Sex distribution

SCB

## Population aged 16-74 by field of education in Sweden 2013

Field of education	Women		Men		Sex distribution	
	Number	Per cent	Number	Per cent	Women	Men
General education	904 346	25,85	1 001 775	27,98	47,44	52,56
Teaching methods and teacher education	325 947	9,32	103 569	2,89	75,89	24,11
Humanities and arts	200 951	5,74	130 947	3,66	60,55	39,45
Social sciences, law, commerce, administration	668 076	19,09	411 542	11,49	61,88	38,12
Natural sciences, mathematics and computing	73 853	2,11	112 767	3,15	39,57	60,43
Engineering and manufacturing	173 500	4,96	1 238 556	34,59	12,29	87,71
Agriculture and forestry, veterinary medicine	45 970	1,31	75 753	2,12	37,77	62,23
Health care and nursing, social care	763 297	21,82	147 917	4,13	83,77	16,23
Services	214 261	6,12	199 366	5,57	51,80	48,20
Unknown	128 565	3,67	158 598	4,43	44,77	55,23
Total	3 498 766	100,00	3 580 790	100,00	49,42	50,58

Source: Statistics Sweden

Statistiska centralbyrån





# Step 3: Simplify

## Population aged 16-74 by field of education in Sweden 2013

*Numbers in thousands, percentage distribution and sex distribution (%)*

Field of education	Women		Men		Sex distribution	
	Number	Per cent	Number	Per cent	Women	Men
General education	904	26	1 002	28	47	53
Teaching methods and teacher education	326	9	104	3	76	24
Humanities and arts	201	6	131	4	61	39
Social sciences, law, commerce, administration	668	19	412	11	62	38
Natural sciences, mathematics and computing	74	2	113	3	40	60
Engineering and manufacturing	174	5	1 239	35	12	88
Agriculture and forestry, veterinary medicine	46	1	76	2	38	62
Health care and nursing, social care	763	22	148	4	84	16
Services	214	6	199	6	52	48
Unknown	129	4	159	4	45	55
<b>Total</b>	<b>3 499</b>	<b>100</b>	<b>3 581</b>	<b>100</b>	<b>49</b>	<b>51</b>

Source: Statistics Sweden

# The simplified table

## Population aged 16-74 by field of education in Sweden 2013

*Numbers in thousands. percentage distribution and sex distribution (%)*

Field of education	Percentage distribution		Sex distribution	
	Women	Men	Women	Men
General education	26	28	47	53
Teaching methods and teacher education	9	3	76	24
Humanities and arts	6	4	61	39
Social sciences, law, commerce, administration	19	11	62	38
Natural sciences, mathematics and computing	2	3	40	60
Engineering and manufacturing	5	35	12	88
Agriculture and forestry, veterinary medicine	1	2	38	62
Health care and nursing, social care	22	4	84	16
Services	6	6	52	48
Unknown	4	4	45	55
Total, percent	100	100	49	51
Total, number	3 499	3 581		

The simplified table is preferable in a publication

Source: Statistics Sweden



# Other examples - education

## Pupils by programme in upper secondary school in Sweden 2012/13

*Numbers in thousands, percentage distribution and sex distribution (%)*

Programme	Percentage distribution		Sex distribution	
	Women	Men	Women	Men
Vocational programme	28	36	41	59
Preparatory orientation for higher education	61	49	53	47
Introduction programme	11	15	41	59
Total, percent	100	100	48	52
Total, number	112	123		

Source: Women and men in Sweden



# Example 1

## Permanent professors and teachers in higher educational institutions 2012/2013

*Numbers, percentage distribution and sex distribution (%)*

	Total	Full Professor	Associate	Assistant	Teacher	Others
Permanent staff	6287	1515	2652	1284	538	298
Women	3154	476	1406	741	335	196
Men	3133	1039	1246	543	203	102
Contracted staff	8466	376	470	91	3449	4080
Women	5240	149	231	46	2204	2610
Men	3226	227	239	45	1245	1470



# "The basic table"

## Permanent professors and teachers in higher educational institutions 2012/2013

*Numbers, percentage distribution and sex distribution (%)*

Permanent staff	Percentage distribution		Sex distribution	
	Women	Men	Women	Men
Full Professor	15	33	31	69
Associate Professor	45	40	53	47
Assistant Professor	23	17	58	42
Teacher	11	6	62	38
Others	6	3	66	34
Total, percent	100	100	50	50
Total, number	3 154	3 133		

What type of staff is most common among women and men?  
Where is the sex distribution most even and uneven?

# Example 2

## Persons working for doctoral degree by programme 2012

*Numbers, percentage distribution and sex distribution*

	Women	Men
Education	152	83
Humanities and Arts	426	208
Social sciences, business and law	468	451
Science	313	294
Engineering, manufacturing and construction	116	228
Agriculture	3	2
Health and welfare	158	54
Services	37	47
Total	1 673	1 367



# ”The basic table”

## Persons working for doctoral degree by programme 2012

*Numbers, percentage distribution and sex distribution*

Programme	Percentage distribution		Sex distribution	
	Women	Men	Women	Men
Education	9	6	65	35
Humanities and Arts	25	15	67	33
Social sciences, business and law	28	33	51	49
Science	19	22	52	48
Engineering, manufacturing and construction	7	17	34	66
Agriculture	0	0	60	40
Health and welfare	9	4	75	25
Services	2	3	44	56
Total, percent	100	100	55	45
Total, number	1 673	1 367		

What programme is most common among women and men?  
Where is the sex distribution most even and uneven?

# Example

## Underlying causes

Sex segregation in education

Unequal sharing of responsibilities within the family

Women's reproductive role

## Problem/concern

Segregation on the labour market: Women in lower status occupations than men

## Consequences/effects

Different wages and salaries

Different career opportunities

Different roles in decision making







# Exercise

## Underlying causes

Population > 15 years by level of education and age

Employed population by marital status and age

Employed population leaving the labour force after the first/second birth

## Problem/concern

Population economically active by occupation

## Consequences/effects

Wages/salaries by occupation

Employed population by career position in the workplace

High level officials in ministries

All statistics should be presented by sex

# Identification and Investigation of Gender Issues

## Exercise:

Identify Gender Issues within your given area and identify underlying causes and effects of the gender issue.

Areas:

1. Unpaid household work
2. Education- Sex segregation in education
3. Health- life expectancy
4. Income levels for women and men
5. Child care
6. Care of the elderly



Any questions?





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# Thank you

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