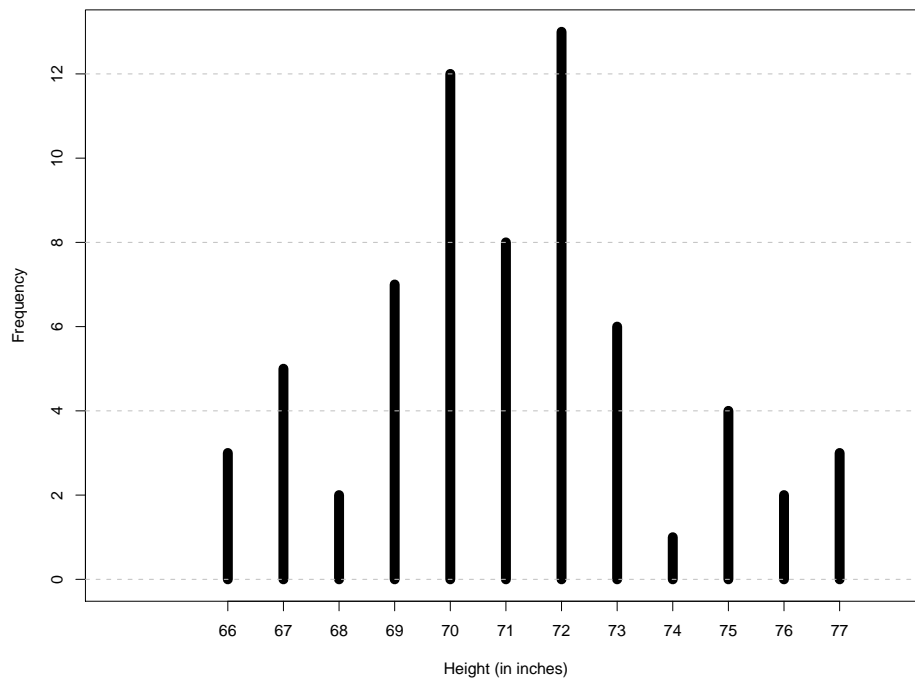


## Heights of male MBA students (in inches)

There is a total of  $n = 66$  observations (already ordered):

66	66	66	67	67	67	67	67	68	68	69
69	69	69	69	69	69	70	70	70	70	70
70	70	70	70	70	70	70	71	71	71	71
71	71	71	71	72	72	72	72	72	72	72
72	72	72	72	72	72	73	73	73	73	73
73	74	75	75	75	75	76	76	77	77	77

## Distribution of heights



## Statistical summaries

$n = 66$

mean = 71.1 inches

median = 71.0 inches (mean of 33th and 34th obs.)

variance = 7.3 inches<sup>2</sup>

standard deviation = 2.7 inches

skewness = 0.2491407

kurtosis = -0.1560486

## BOXPLOT

Q1 = 69.0 (17th obs.)

Q2 = 71.0 (same as the median)

Q3 = 72.0 (50th obs.)

IQ = Q3 - Q1 = 72 - 69 = 3.0

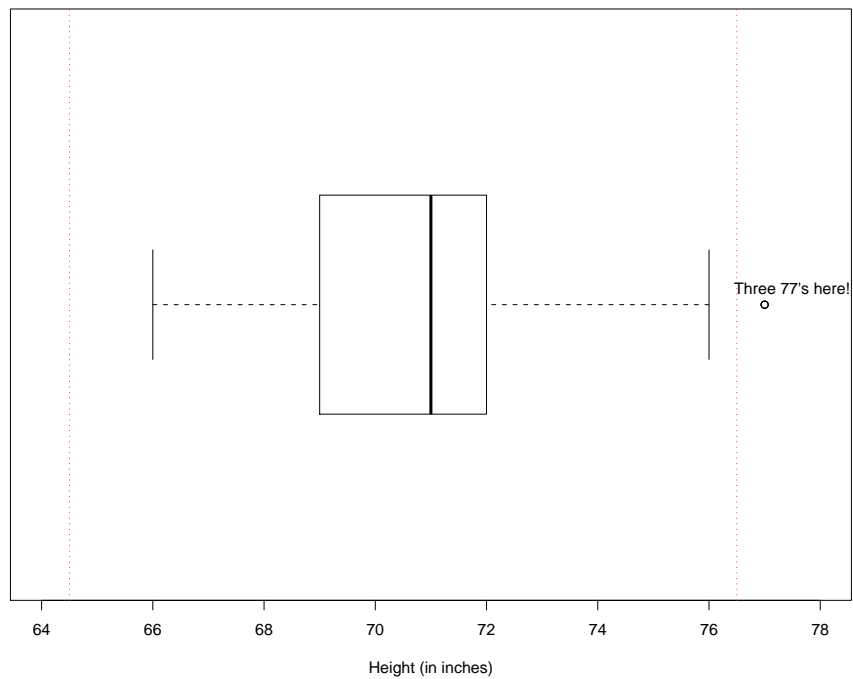
1.5\*IQ = 4.5

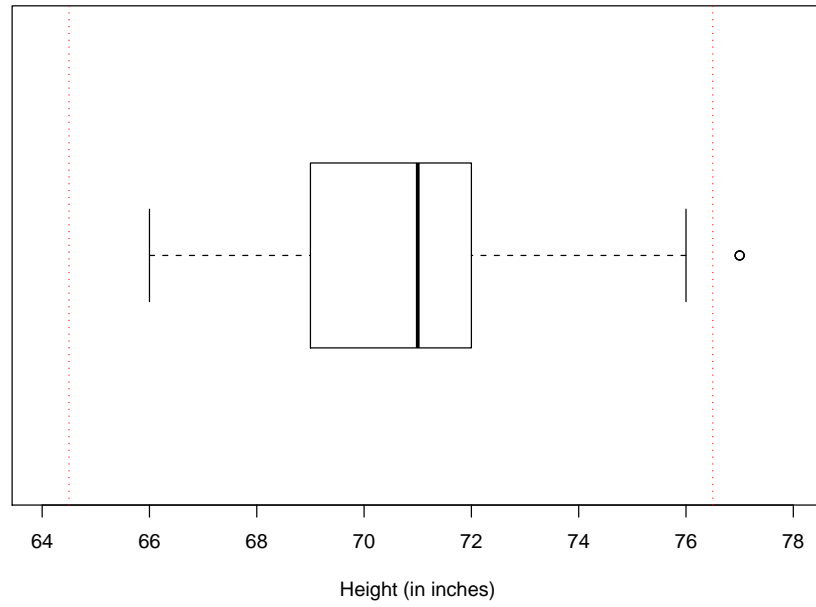
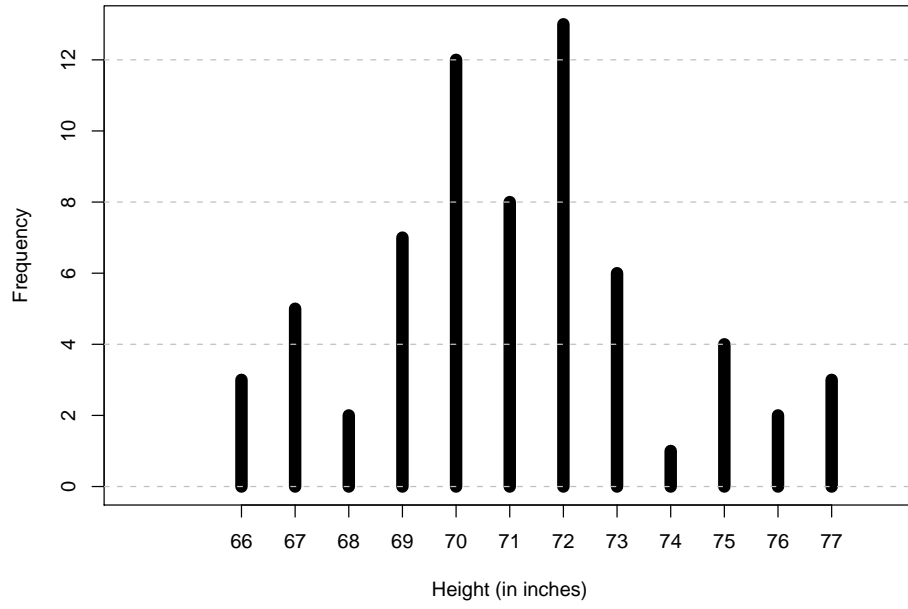
L = Q1 - 1.5\*IQ = 69 - 4.5 = 64.5

U = Q3 + 1.5\*IQ = 72 + 4.5 = 76.5

Largest observation below 76.5 = 76.0

Smallest observation above 64.5 = 66.0





**Table 209. Cumulative Percent Distribution of Population by Height and Sex: 2007–2008**

[Data are based on National Health and Nutrition Examination Survey (NHANES), a sample of the civilian noninstitutional population. For this survey, the respondent participates in an interview and a physical examination. For persons 20 years old and over. Height was measured without shoes. Based on sample and subject to sampling variability; see source]

Height	Males						Females					
	20–29 years	30–39 years	40–49 years	50–59 years	60–69 years	70–79 years	20–29 years	30–39 years	40–49 years	50–59 years	60–69 years	70–79 years
Percent under—												
4'10" .....	—	—	—	(B)	—	—	—	<sup>1</sup> 1.7	—	<sup>1</sup> 1.0	—	<sup>1</sup> 3.3
4'11" .....	—	—	—	(B)	(B)	—	<sup>1</sup> 2.6	3.1	<sup>1</sup> 1.6	2.1	<sup>1</sup> 3.6	8.7
5' .....	(B)	—	—	(B)	(B)	—	5.7	6.0	5.0	8.0	9.0	16.0
5'1" .....	(B)	(B)	(B)	(B)	<sup>1</sup> 0.4	(B)	12.3	11.6	10.8	16.7	14.7	26.0
5'2" .....	(B)	(B)	(B)	(B)	(B)	(B)	20.8	19.7	19.8	23.3	23.4	36.9
5'3" .....	(B)	<sup>1</sup> 3.1	<sup>1</sup> 1.9	(B)	<sup>1</sup> 2.3	(B)	30.4	31.3	30.8	36.3	38.4	51.9
5'4" .....	3.7	<sup>1</sup> 4.4	3.8	<sup>1</sup> 4.3	4.4	5.8	43.5	46.6	46.0	50.7	52.8	69.9
5'5" .....	7.2	6.7	5.6	7.6	7.8	12.8	54.1	61.2	58.0	68.4	66.6	82.8
5'6" .....	11.6	13.1	9.8	12.2	14.7	23.0	72.4	74.0	72.2	79.7	83.3	89.3
5'7" .....	20.6	19.6	19.4	18.6	23.7	35.1	82.3	84.9	83.0	88.4	93.3	95.4
5'8" .....	33.1	32.2	30.3	30.3	37.7	47.7	90.3	91.8	91.2	95.2	97.0	98.4
5'9" .....	42.2	45.4	40.4	41.2	50.2	60.3	94.1	96.1	94.7	97.3	97.8	99.6
5'10" .....	58.6	58.1	54.4	54.3	65.2	75.2	97.6	98.9	97.8	98.9	99.6	99.6
5'11" .....	70.7	69.4	69.6	70.0	75.0	85.8	99.6	98.9	99.4	100.0	99.8	100.0
6' .....	79.9	78.5	79.1	81.2	84.3	91.0	100.0	99.4	99.5	100.0	99.9	100.0
6'1" .....	89.0	89.0	87.4	91.6	93.6	94.9	100.0	99.9	99.5	100.0	99.9	100.0
6'2" .....	94.1	94.0	92.5	93.7	97.8	98.6	100.0	100.0	99.5	100.0	100.0	100.0
6'3" .....	98.3	95.8	97.7	96.6	99.9	100.0	100.0	100.0	99.5	100.0	100.0	100.0
6'4" .....	100.0	97.6	99.0	99.5	100.0	100.0	100.0	100.0	99.5	100.0	100.0	100.0
6'5" .....	100.0	99.4	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6'6" .....	100.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

— Represents zero. B Base figure too small to meet statistical standards of reliability of a derived figure. <sup>1</sup> Figure does not meet standard for reliability or precision.

Source: U.S. National Center for Health Statistics, unpublished data, <<http://www.cdc.gov/nchs/nhanes.htm>>.

