

Samples 1000

Sample A

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

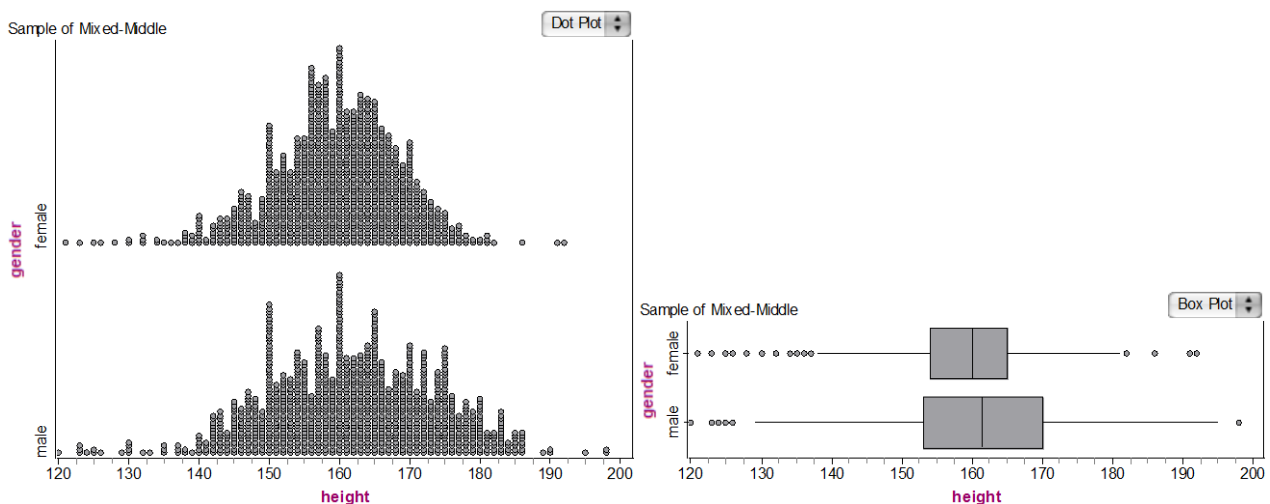
PLAN

Take a sample of approx 1000 girls and approx 1000 boys from the 14 middle schools. (This has been done using Fathom to take the samples).

DATA

Read and record the heights for each student. (Using Fathom take a sample of at least 1000 girls and at least 1000 boys – see [sampleheight14middleschool1000.ftm](#) file)

ANALYSIS



Middle 50%:

Shift: From the samples I notice...

Overlap: From the samples I notice ...

Shape (Describe the shape of each sample distribution, compare the shapes of the two sample distributions):

From the samples I notice...

Spread (Describe the spread of each sample distribution, compare the spreads of the two sample distributions):

From the samples I notice...

CONCLUSION

Write a conclusion using the headings below.

Answer the problem:

“Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?”

EITHER: I am able to make a claim that ...

OR: It is too close to call ...

Explain why you have made this conclusion.

Evidence:

If I took another sample...

Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample B

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

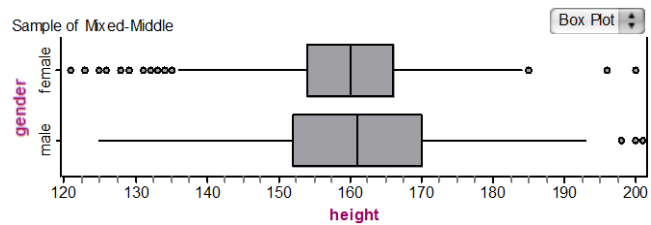
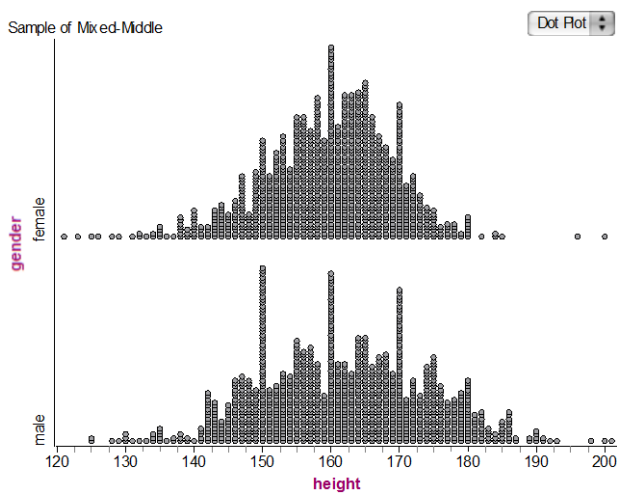
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Read and record the heights for each student. (Using Fathom take a sample of at least 1000 girls and at least 1000 boys – see [sampleheight14middleschool1000.ftm](#) file)

ANALYSIS



Middle 50%:

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EITHER: I am able to make a claim that ...

OR: It is too close to call ...

Explain why you have made this conclusion.

Evidence:

If I took another sample...

Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample C

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

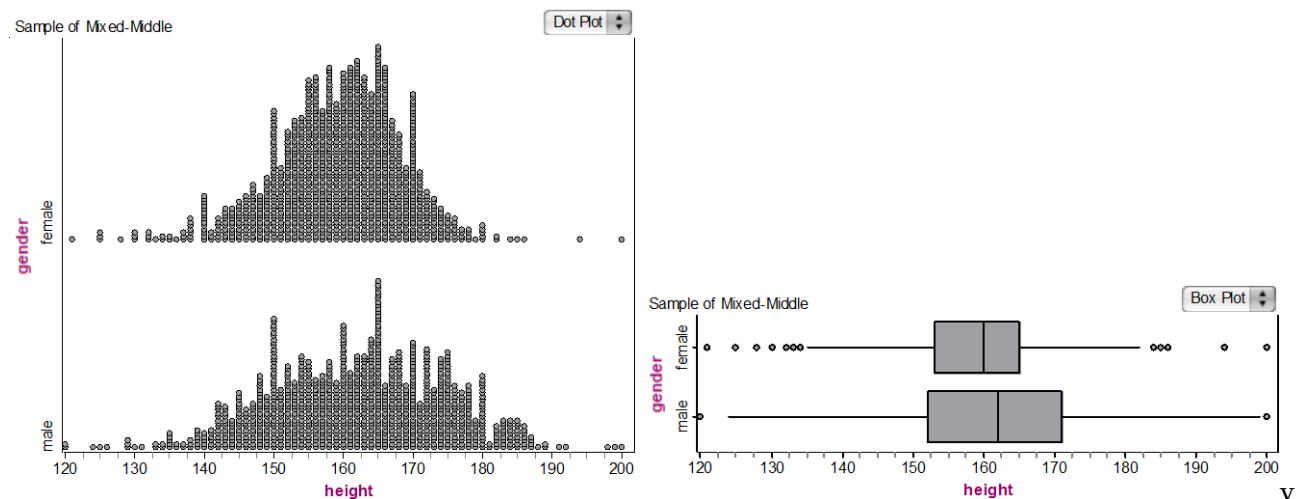
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DATA

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ANALYSIS



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Explain why you have made this conclusion.

Evidence:

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Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample D

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

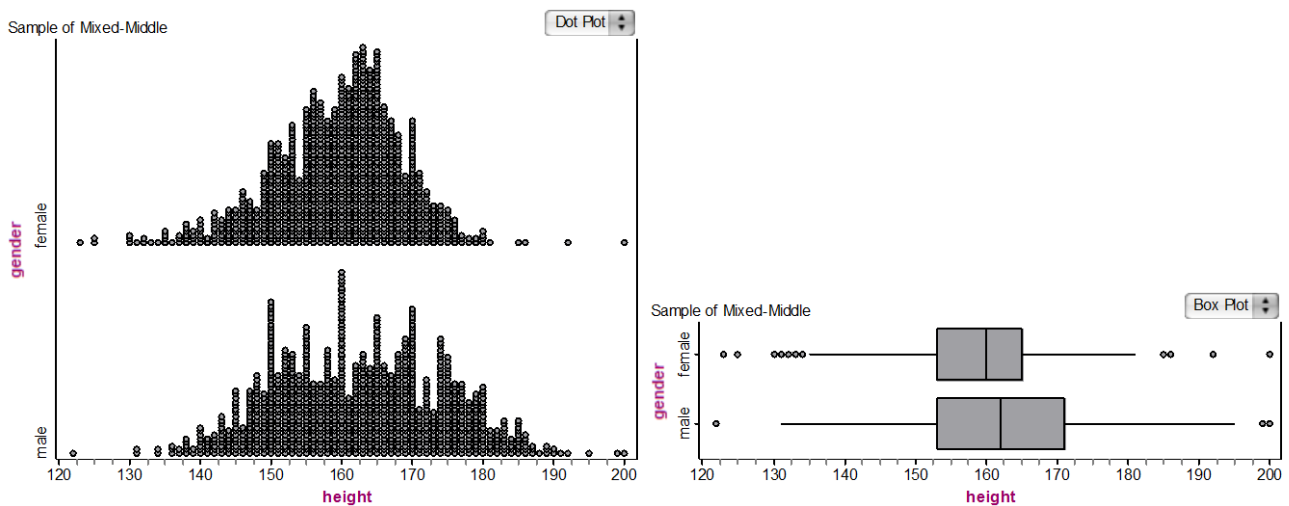
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Evidence:

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Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample E

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

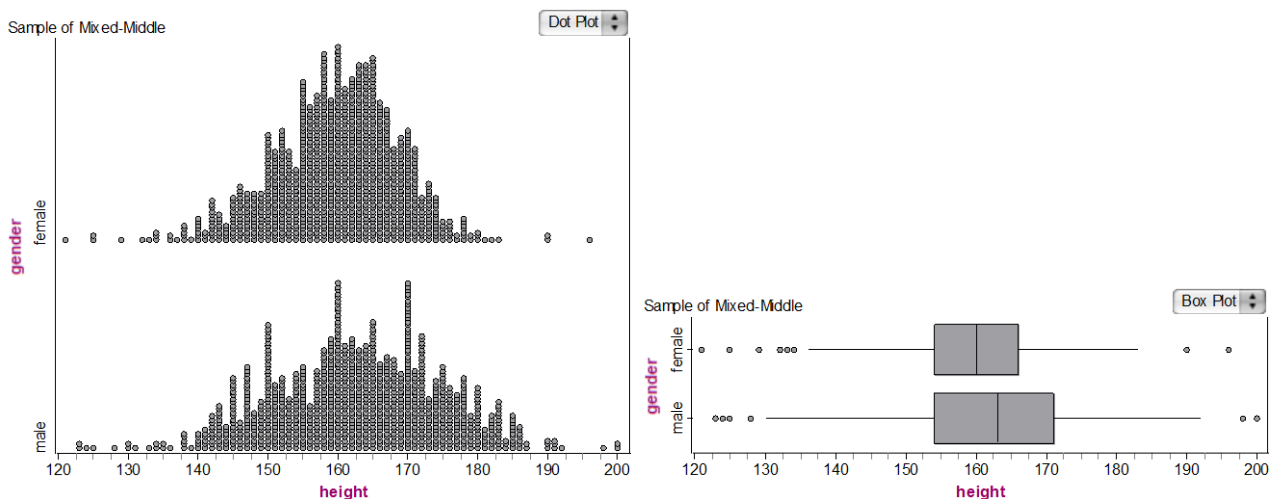
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Evidence:

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Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample F

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

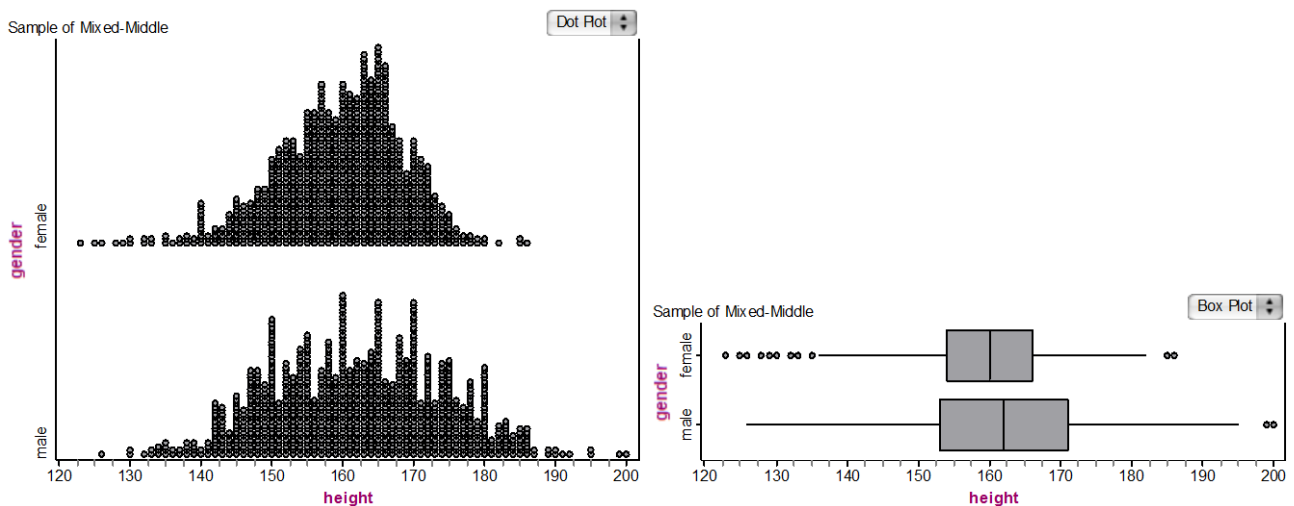
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Evidence:

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Why/ why not?

Samples 1000

Sample G

PROBLEM

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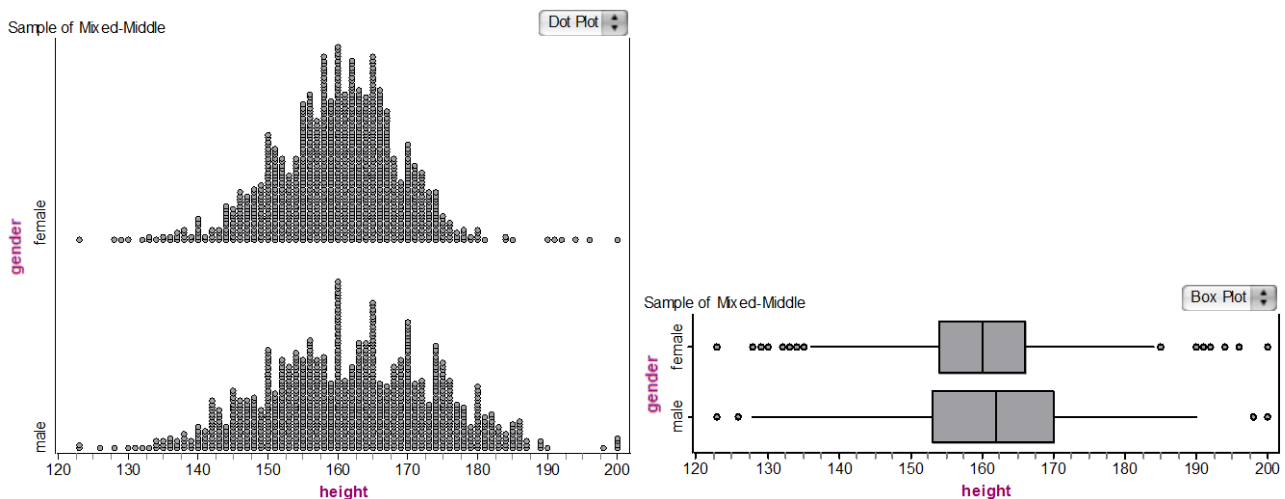
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Evidence:

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Why/ why not?

Samples 1000

Sample H

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

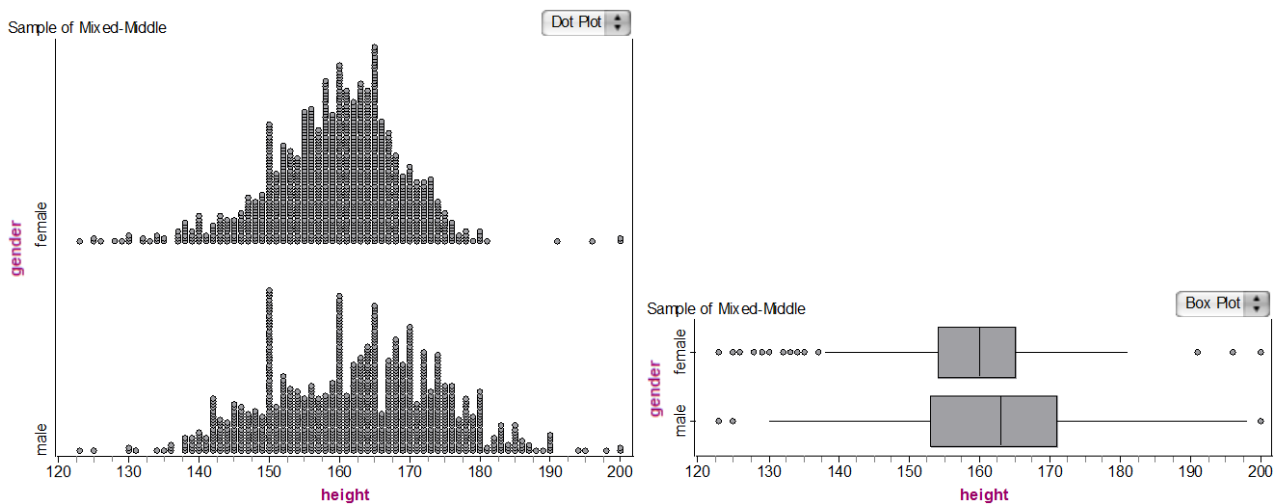
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Evidence:

If I took another sample...

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Samples 1000

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PROBLEM

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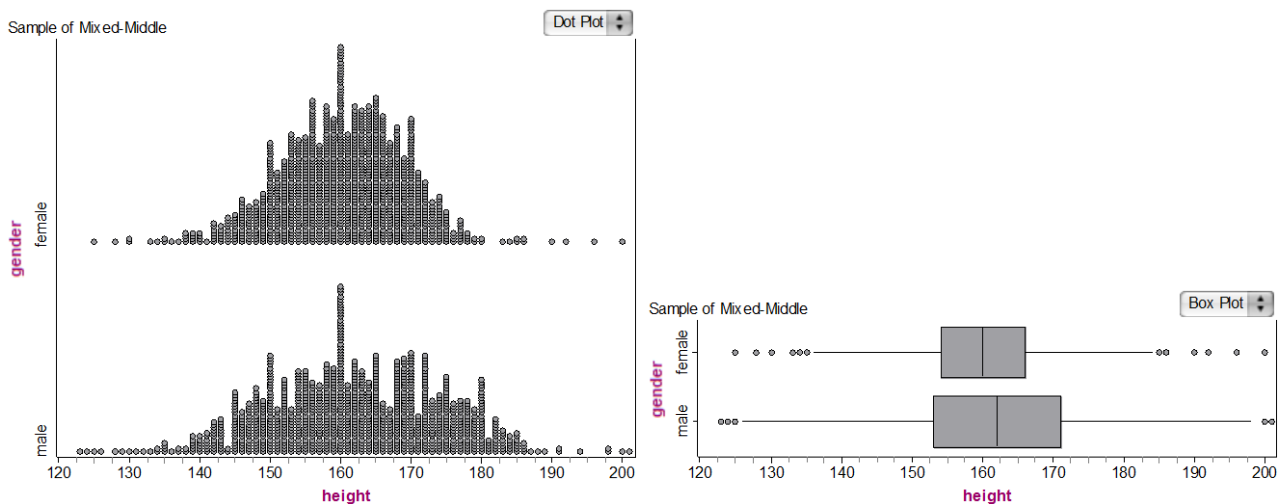
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Evidence:

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Samples 1000

Sample I

PROBLEM

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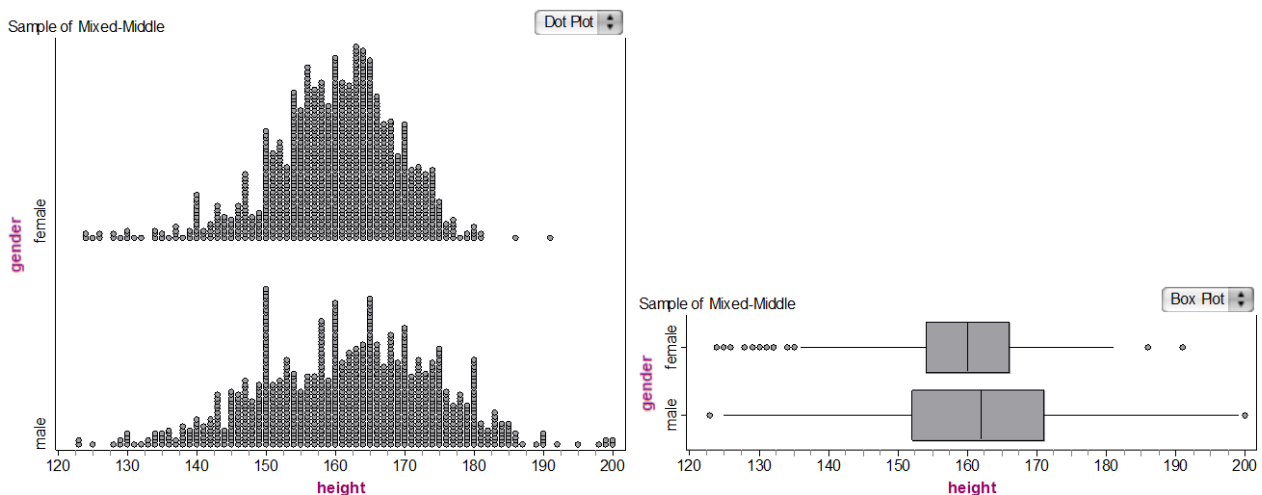
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Explain why you have made this conclusion.

Evidence:

If I took another sample...

Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample J

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

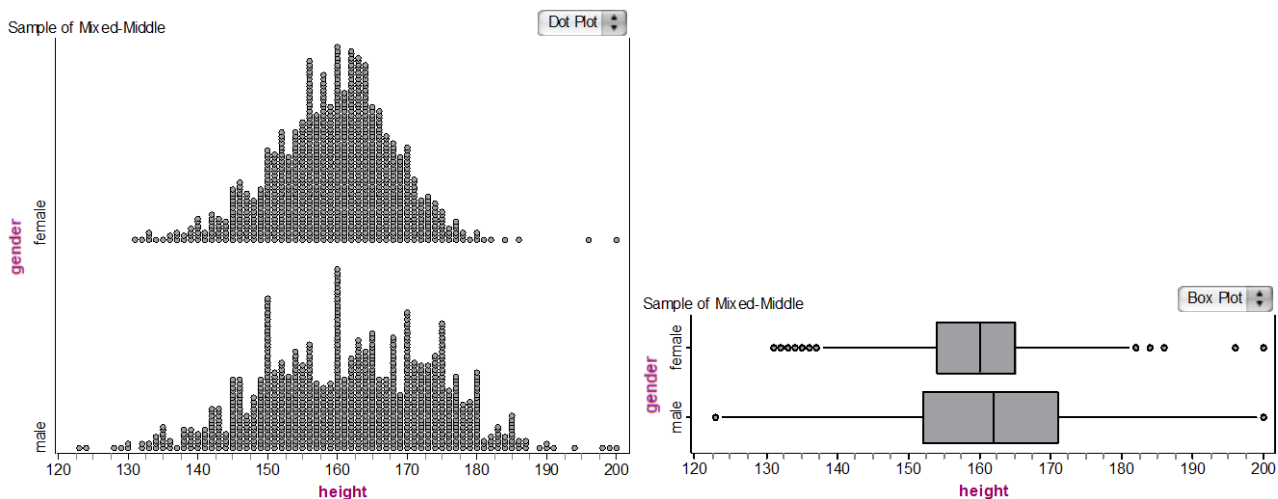
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Evidence:

If I took another sample...

Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample K

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

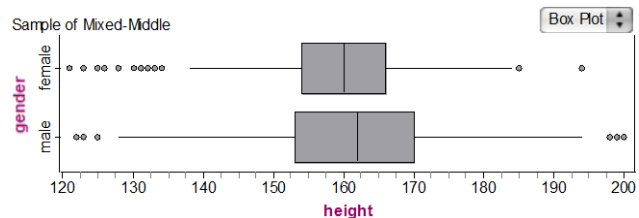
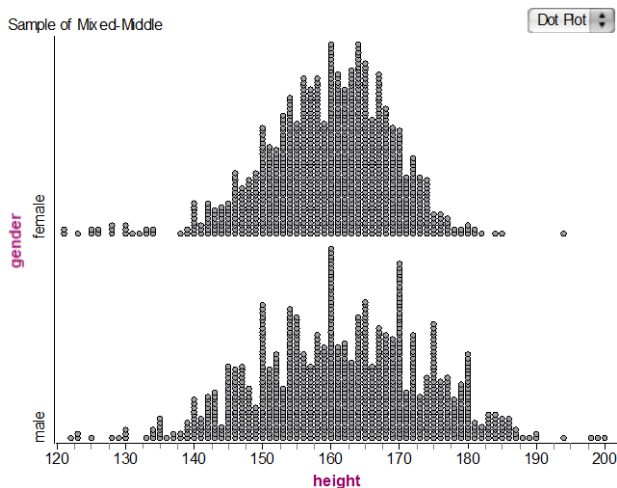
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Explain why you have made this conclusion.

Evidence:

If I took another sample...

Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample L

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

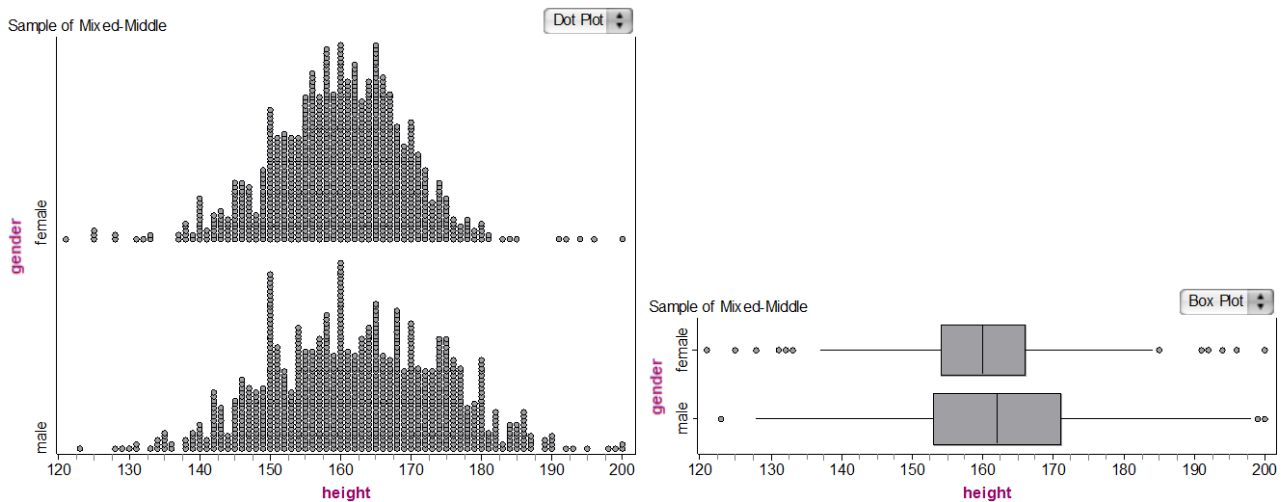
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Explain why you have made this conclusion.

Evidence:

If I took another sample...

Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample M

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

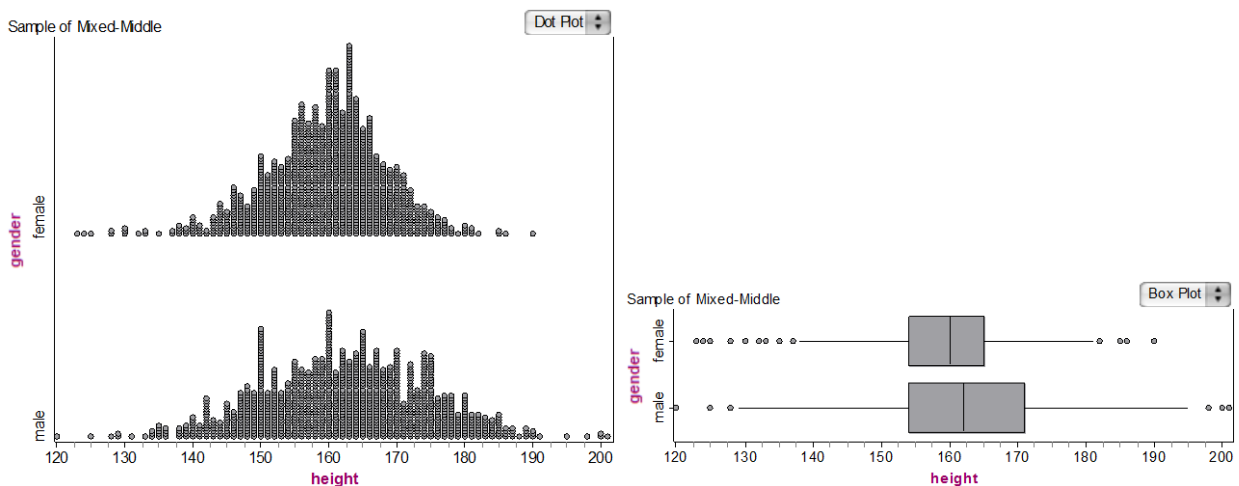
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Explain why you have made this conclusion.

Evidence:

If I took another sample...

Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample N

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

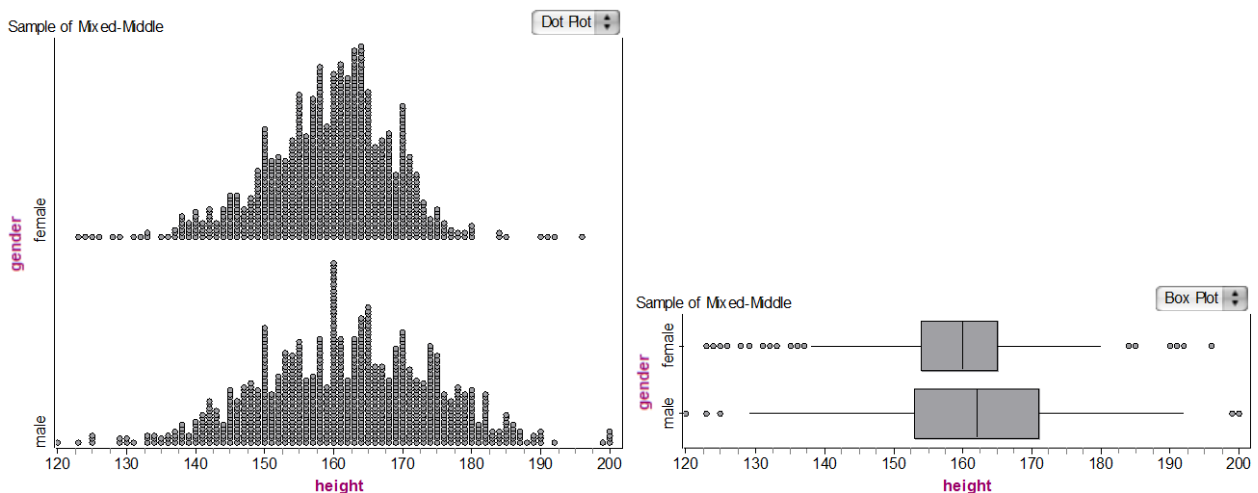
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Evidence:

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Why/ why not?

Samples 1000

Sample O

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

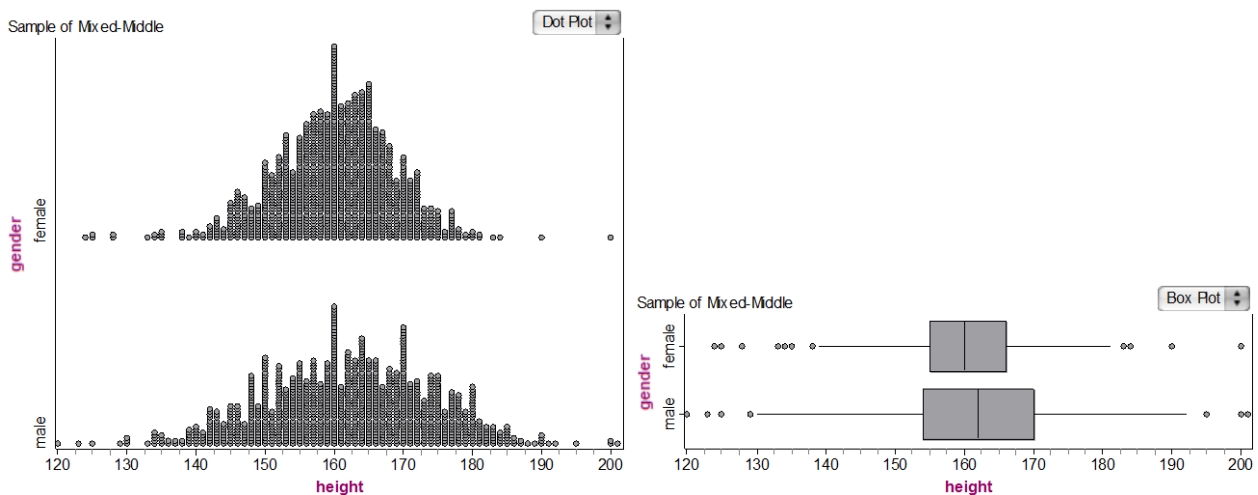
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Evidence:

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Does this conclusion make sense with what you personally know about heights of year 7-10 boys and girls?

Why/ why not?

Samples 1000

Sample P

PROBLEM

Do the heights of boys in the 14 middle schools tend to be taller than the heights of girls in the 14 middle schools?

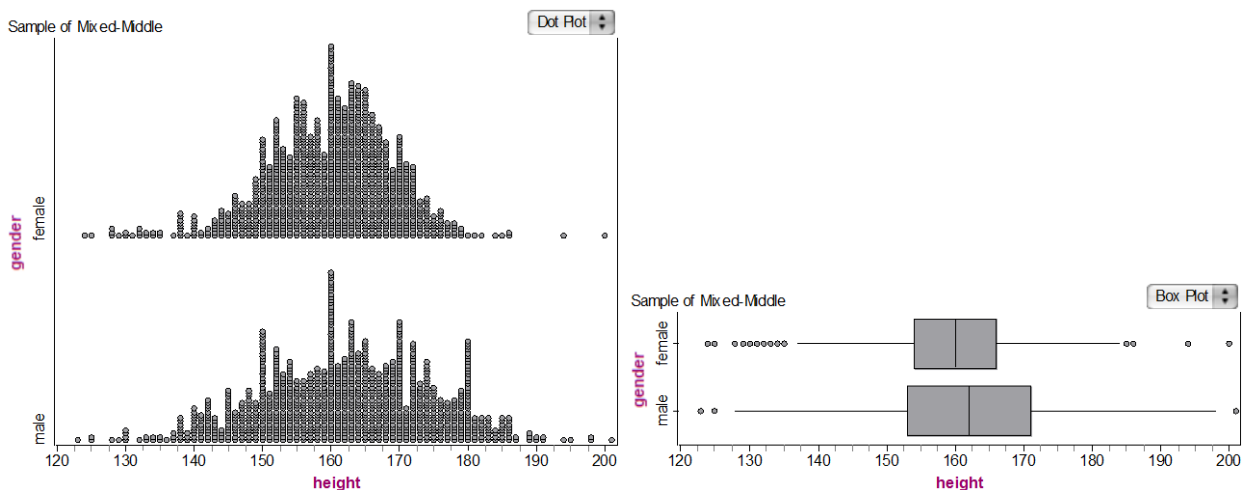
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