Candle Center - Infinite Geometry Name_____

Line Segments and Measure

Date_____ Period____

Use a ruler to measure the length of each line segment. Measure each segment in inches. Round your measurements to the nearest $\frac{1}{8}$ of an inch.

1) 

2) 

3) 

4) 

5)

6)

7) 

8) 

9)

10) 

11) 

12) 

13) 

14) 

Use a ruler to measure the length of each line segment. Measure each segment in inches. Round your measurements to the nearest $\frac{1}{8}$ of an inch. Also state the maximum error and maximum percent of error in each measurement.

15) 

16) 

17) 

18) 

19)

20) 

Critical thinking questions:

21) Jessica measures a line segment to the nearest $\frac{1}{8}$ of an inch. She calculates that her measurement has up to 0.1% error in it.

What measure did she find for the line segment?

22) What is the minimum error and minimum percent error in Jessica's measurement?

Candle Center - Infinite Geometry Name_____

Line Segments and Measure

Date_____ Period____

Use a ruler to measure the length of each line segment. Measure each segment in inches. Round your measurements to the nearest $\frac{1}{8}$ of an inch.

1) 

3"

2) 

$\frac{3}{4}$"

3) 

$1\frac{1}{4}$"

4) 

$1\frac{5}{8}$"

5)

$2\frac{3}{8}$"

6)

2"

7) 

$2\frac{7}{8}$"

8) 

$\frac{5}{8}$"

9)

$5\frac{3}{4}$"

10) 

$6\frac{1}{8}$"

11) 

$4\frac{1}{2}$"

12) 

7"

13) 

$4\frac{1}{8}$"

14) 

$3\frac{3}{4}$"

Use a ruler to measure the length of each line segment. Measure each segment in inches. Round your measurements to the nearest $\frac{1}{8}$ of an inch. Also state the maximum error and maximum percent of error in each measurement.

15) 

$2\frac{5}{8}$", $\frac{1}{16}$", 2.4%

16) 

$\frac{1}{2}$", $\frac{1}{16}$", 12.5%

17)

$\frac{7}{8}$", $\frac{1}{16}$", 7.1%

18)

$1\frac{1}{4}$", $\frac{1}{16}$", 5%

19)

$4\frac{7}{8}$", $\frac{1}{16}$", 1.3%

20) 

$5\frac{3}{8}$", $\frac{1}{16}$", 1.2%

Critical thinking questions:

21) Jessica measures a line segment to the nearest $\frac{1}{8}$ of an inch. She calculates that her measurement has up to 0.1% error in it.

What measure did she find for the line segment?

$62\frac{1}{2}$"

22) What is the minimum error and minimum percent error in Jessica's measurement?

0" error; 0% error