

Line Segments and Measure

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?

Line Segments and Measure

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?

$$0" \text{ error; } 0\% \text{ error}$$