

Fractions and Measurement Handout

Answer Key

Comparing Fraction Amounts Practice 1

For each of the following pairs of fractions, circle the one that is the largest.
Circle both if they are the same amount.

1. $\left(\frac{1}{2}\right)$ or $\frac{1}{4}$

2. $\left(\frac{1}{2}\right)$ or $\left(\frac{2}{4}\right)$

3. $\frac{1}{2}$ or $\left(\frac{3}{4}\right)$

4. $\left(\frac{1}{4}\right)$ or $\frac{1}{8}$

5. $\left(\frac{1}{4}\right)$ or $\left(\frac{2}{8}\right)$

6. $\left(\frac{1}{4}\right)$ or $\frac{3}{8}$

7. $\frac{1}{4}$ or $\left(\frac{5}{8}\right)$

8. $\frac{1}{4}$ or $\left(\frac{8}{8}\right)$

9. $\left(\frac{1}{8}\right)$ or $\frac{1}{16}$

10. $\left(\frac{1}{8}\right)$ or $\left(\frac{2}{16}\right)$



Measuring Your Success

The tape measure is one of the most basic hand tools used in the trades. Your ability to quickly and accurately measure will greatly improve your success at work.



Features of a Tape Measure

Blade: The blade is typically replaceable and usually shows measurements in feet and inches on one side and inches only on the other. Often special marks are located every 16" for wall layout.

Hook: Allows tape to be latched on to edge of material for easy one hand measuring. The hook slides to compensate for the difference between measuring when tape is hooked and when tape is pushed up against an edge.

Size: Tapes come in a range of sizes. Choose what is best for the task and the size of your hands. Sixteen and 25 foot lengths are the most common.

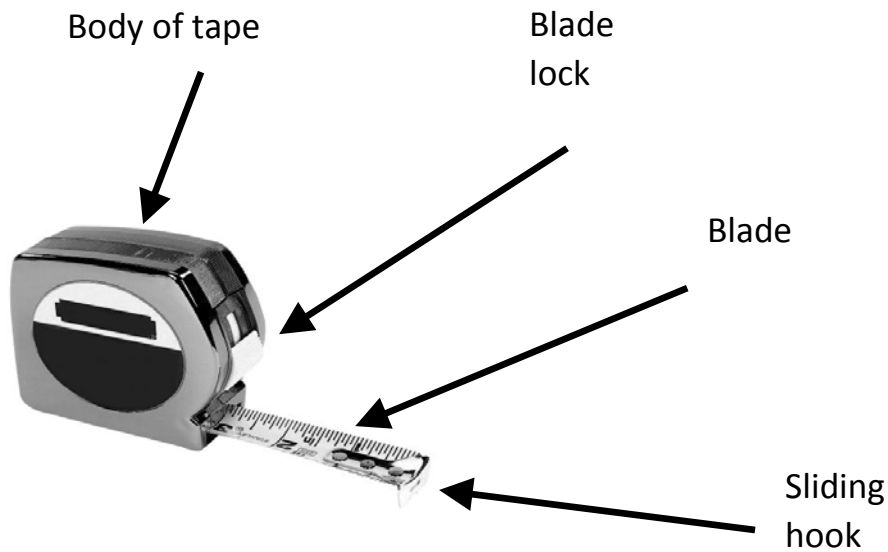
Retraction: The blade automatically retracts when pulled out. Control the return when retracting from long distances. Protect your fingers!

Lock: The tape may be locked in position which can be helpful in some situations such as layout or using it alone.

Magnetic tip: Some tapes have a magnetic tip for easier measuring against magnetic objects.

Stand out: Different tapes have different "stand out" capabilities which is the ability of the tape to hold itself rigid in a straight line. Generally, the wider the blade, the longer the stand out. A 25' tape with 3/4" blade has a 7-8' stand out.





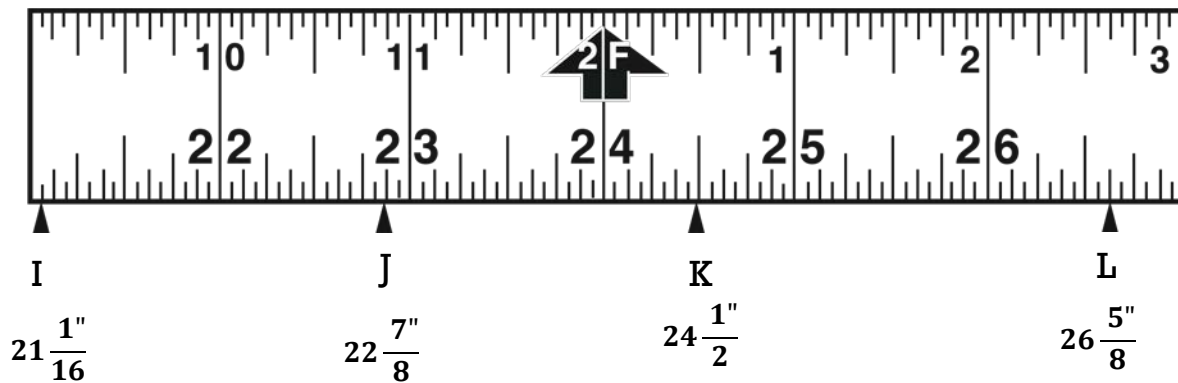
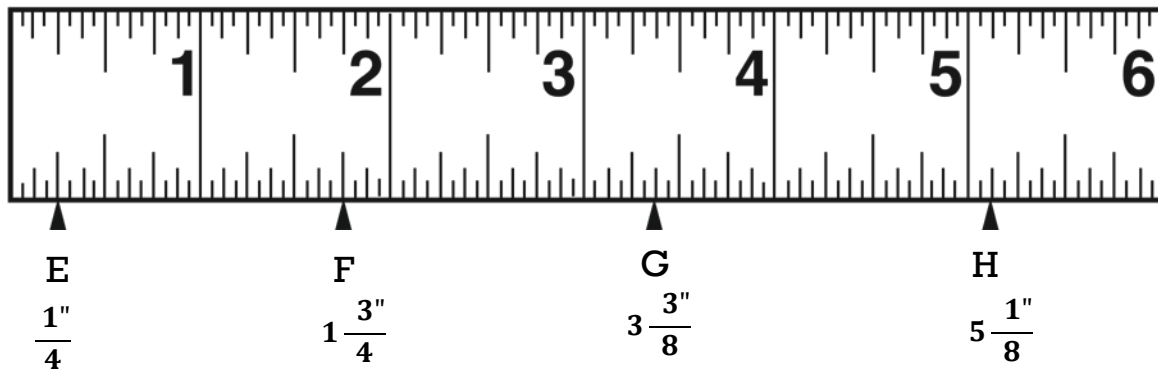
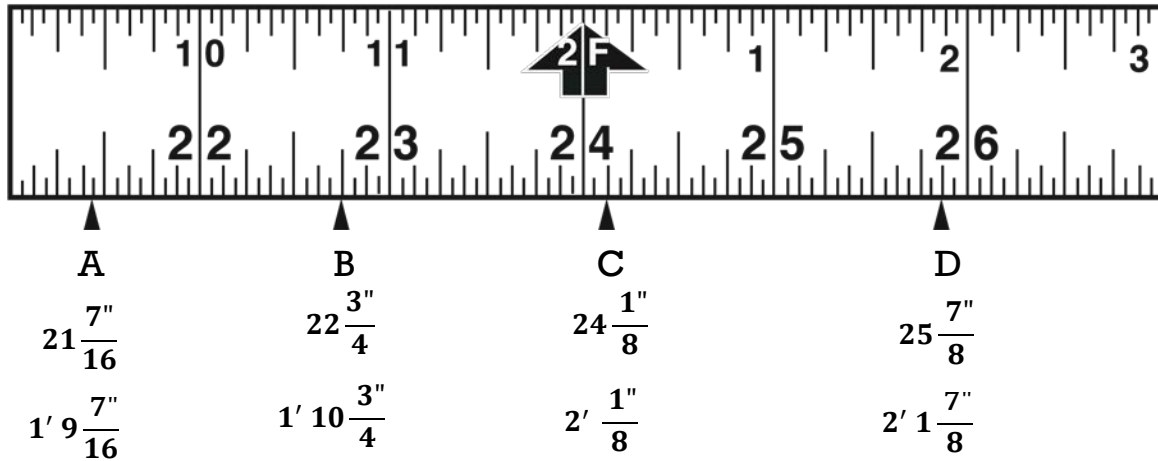
Tape Measure Skills

- Observe and learn the breakdown of an inch into halves, quarters, eighths and sixteenths.
- Hook the tape on an edge and pull with one hand.
- Manipulate the tape to measure a tall object vertically.
- Use the 1" or 10" mark to measure precisely--also known as "burning an inch."



Measurement Practice 1

Identify the marks indicated on the tape. Write your answer in inches and, if applicable, feet and inches, directly under each mark.



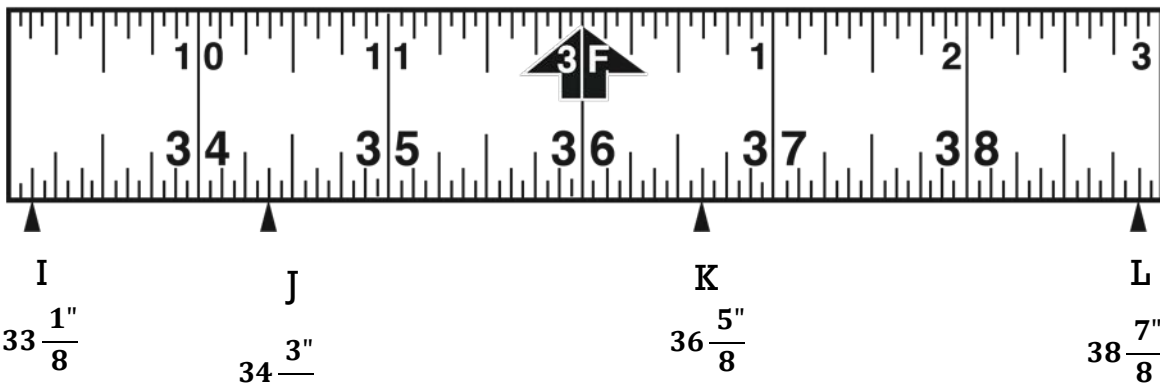
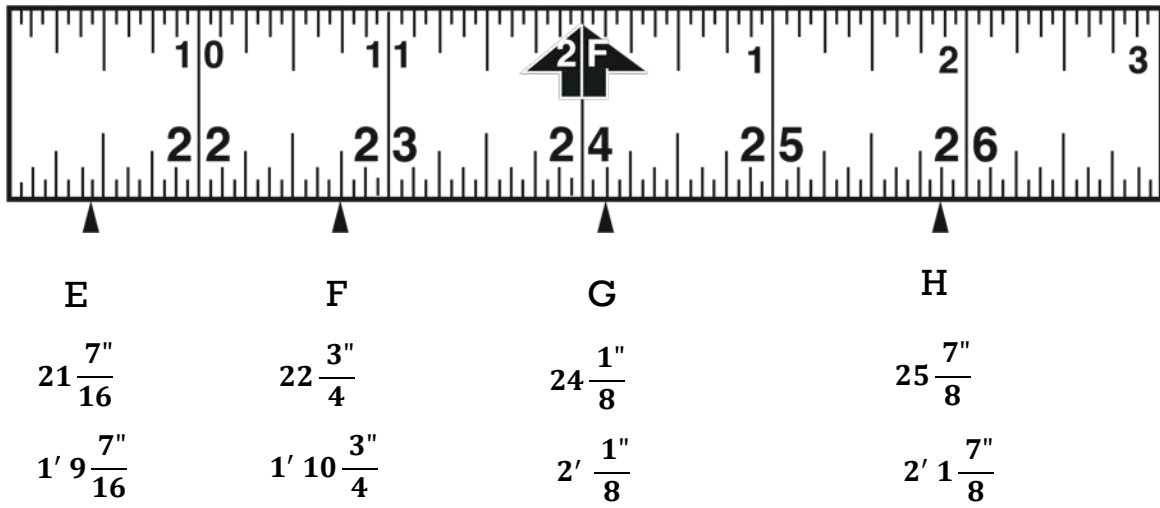
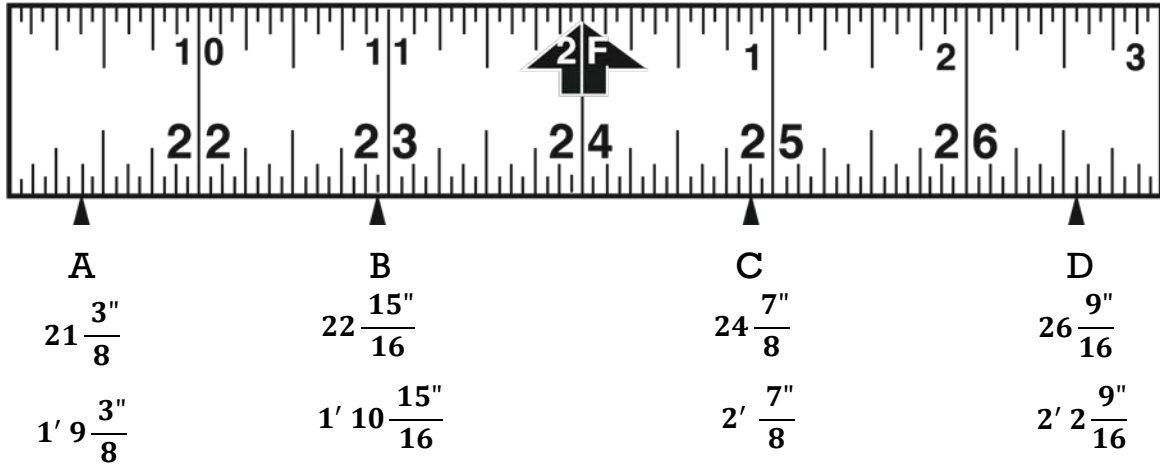
$1' 9 \frac{1}{16}$

$1' 10 \frac{7}{8}$

$2' \frac{1}{2}$

$2' 2 \frac{5}{8}$





$$2' 9\frac{1}{8}$$

$$2' 10\frac{3}{8}$$

$$3' \frac{5}{8}$$

$$3' 2\frac{7}{8}$$



Hands on Measurement Practice

This activity will give you practice using a tape measure to measure the length of objects. Your instructor will identify the objects you are to measure and whether you are to measure their height, width, or some other aspect. Work with a partner to take each measurement with your tape measure. Both you and your partner should make each measurement and check each other's work to be sure that you get the same, correct measurement. Write your measurements in the table below, putting each measurement on a separate line. Do not forget to include the units.

Object	What you are measuring (height, width, etc.)	Measurement



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Comparing Fraction Amounts Practice 2

For each of the following pairs of fractions, circle the one that is the largest. Circle both if they are the same amount.

11. $\frac{1}{8}$ or $\frac{3}{16}$

12. $\frac{1}{8}$ or $\frac{7}{16}$

13. $\frac{1}{8}$ or $\frac{11}{16}$

14. $\frac{1}{16}$ or $\frac{3}{16}$

15. $\frac{7}{8}$ or $\frac{9}{16}$

16. $\frac{1}{2}$ or $\frac{5}{8}$

17. $\frac{1}{2}$ or $\frac{7}{16}$

18. $\frac{1}{4}$ or $\frac{4}{16}$

Measurement Practice 2

Use your ruler to measure each of the lines. Write the length, in inches, next to the line.

1. _____ $1\frac{9}{16}$

2. _____ $3\frac{1}{4}$

3. _____ $\frac{5}{16}$

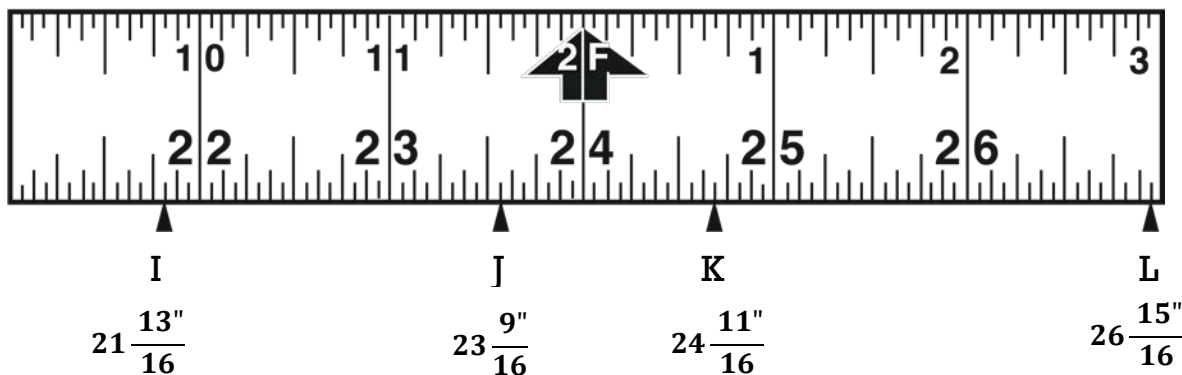
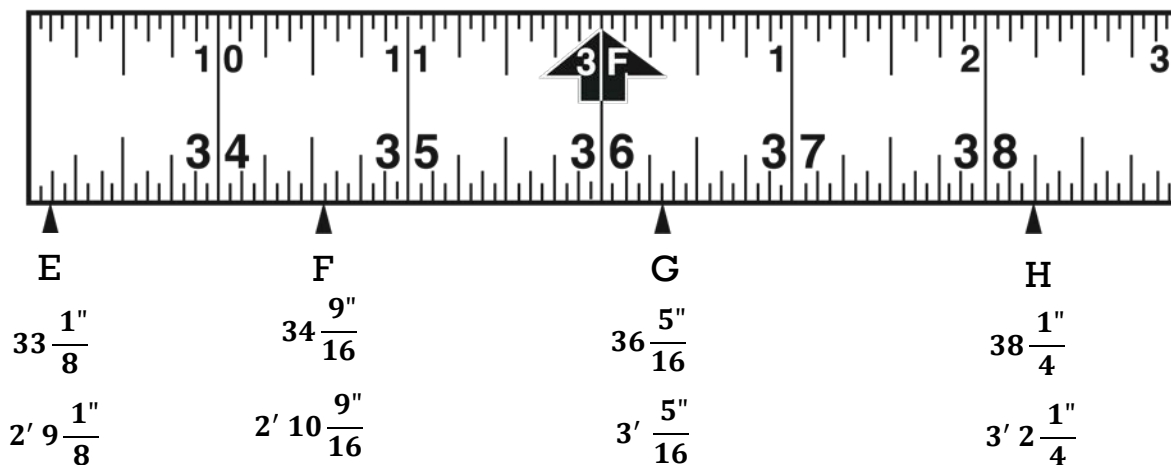
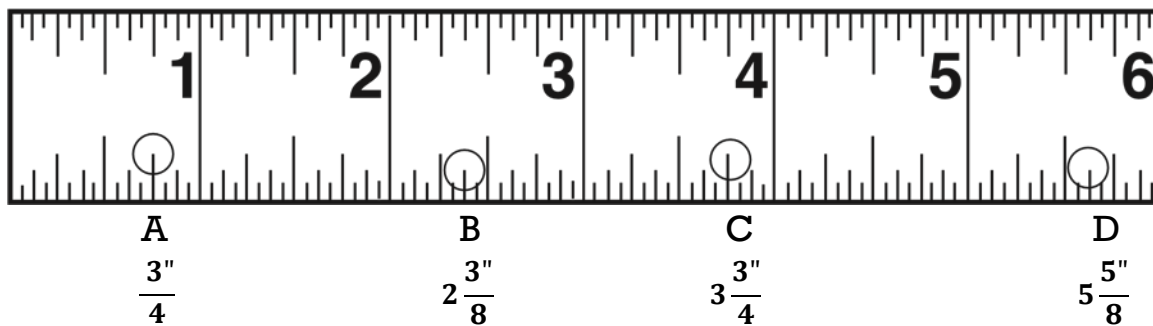
4. _____ $4\frac{3}{8}$



5. _____

2

Identify the marks indicated on the tape. Write your answer in inches and, if applicable, feet and inches, directly under each mark.



$1' 9\frac{13}{16}$

$1' 11\frac{9}{16}$

$2' 2\frac{15}{16}$

Comparing Fraction Amounts Practice 3

For each of the following pairs of fractions, circle the one that is the largest. Circle both if they are the same amount.

19. $\frac{7}{8}$ or $\frac{15}{16}$

20. $1\frac{5}{16}$ or $1\frac{1}{4}$

21. $1\frac{1}{8}$ or $1\frac{1}{16}$

22. $2\frac{7}{8}$ or $2\frac{3}{4}$

23. $9\frac{3}{16}$ or $9\frac{1}{4}$

24. $68\frac{3}{8}$ or $68\frac{5}{16}$

Measurement Practice 3

Use your ruler to measure each of the lines. Write the length, in inches, next to the line.

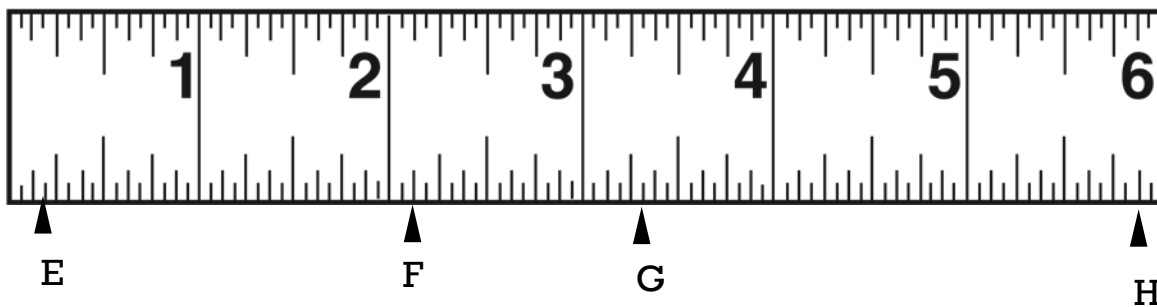
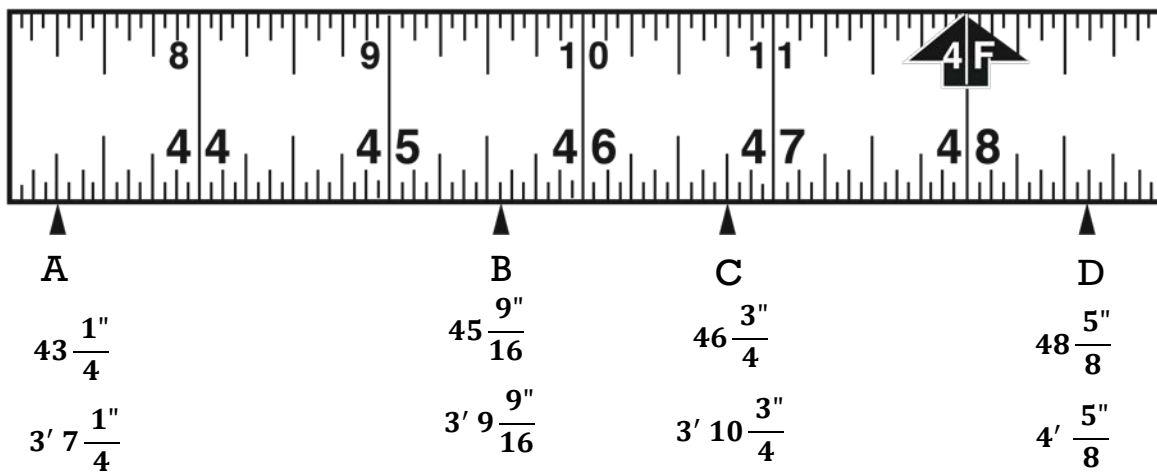
1. _____

$3\frac{1}{8}$



2. _____ $\frac{7''}{16}$
3. _____ $2\frac{15''}{16}$
4. _____ $1\frac{1''}{2}$
5. _____ $1\frac{5''}{8}$

Identify the marks indicated on the tape. Write your answer in inches and, if applicable, feet and inches, directly under each mark.



$$\frac{3''}{16}$$

$$2\frac{1''}{8}$$

$$3\frac{5''}{16}$$

$$5\frac{7''}{8}$$



I

$$33\frac{11''}{16}$$

$$2' 9\frac{11''}{16}$$

J

$$35\frac{3''}{16}$$

$$2' 11\frac{3''}{16}$$

K

$$36\frac{5''}{8}$$

$$3' \frac{5''}{8}$$

L

$$38\frac{3''}{8}$$

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



Comparing Fraction Amounts Practice 4

For each of the following pairs of fractions, circle the one that is the largest. Circle both if they are the same amount.

1. $14\frac{3}{8}$ or $14\frac{1}{2}$

2. $37\frac{5}{8}$ or $37\frac{3}{4}$

3. $18\frac{5}{8}$ or $18\frac{9}{16}$

4. $21\frac{1}{4}$ or $21\frac{3}{16}$

5. $3\frac{5}{16}$ or $3\frac{1}{2}$

6. $55\frac{13}{16}$ or $55\frac{7}{8}$

Measurement Practice 4

Use your ruler to measure each of the lines. Write the length, in inches, next to the line.

1. _____ $4\frac{3}{4}$

2. _____ $\frac{1}{2}$

3. _____ 5

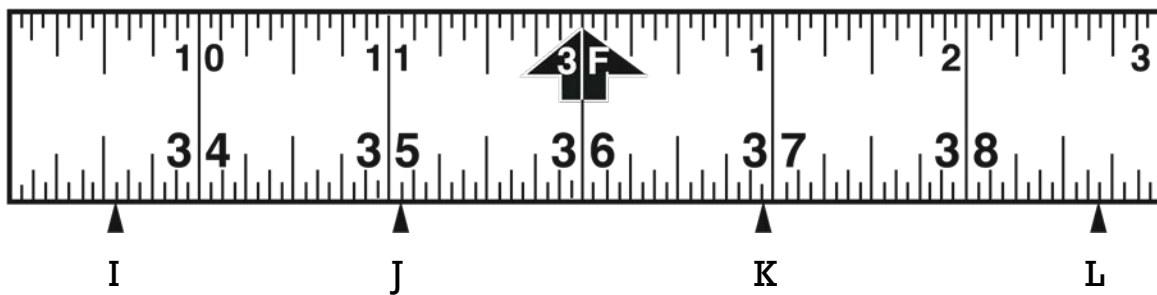
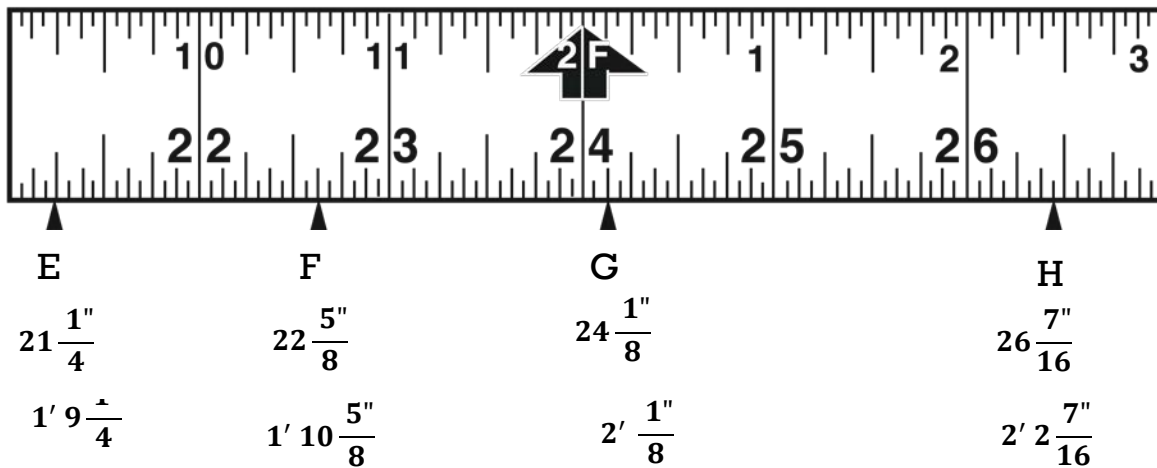
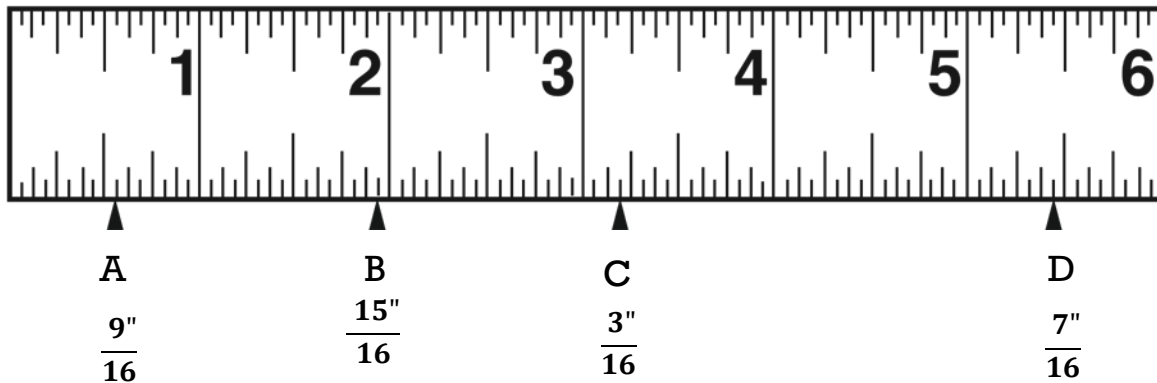
4. _____ $2\frac{1}{16}$



5. _____

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

Identify the marks indicated on the tape. Write your answer in inches and, if applicable, feet and inches, directly under each mark.



$$33\frac{9}{16}$$

$$35\frac{1}{16}$$

$$36\frac{15}{16}$$

$$38\frac{11}{16}$$

$$2' 9\frac{9}{16}$$

$$2' 11\frac{1}{16}$$

$$3' \frac{15}{16}$$

$$3' 2\frac{11}{16}$$



Measurement Practice 5

Use your ruler to measure each of the lines. Write the length, in inches, next to the line.

1. _____ $2\frac{1}{2}$

2. _____ $2\frac{1}{8}$

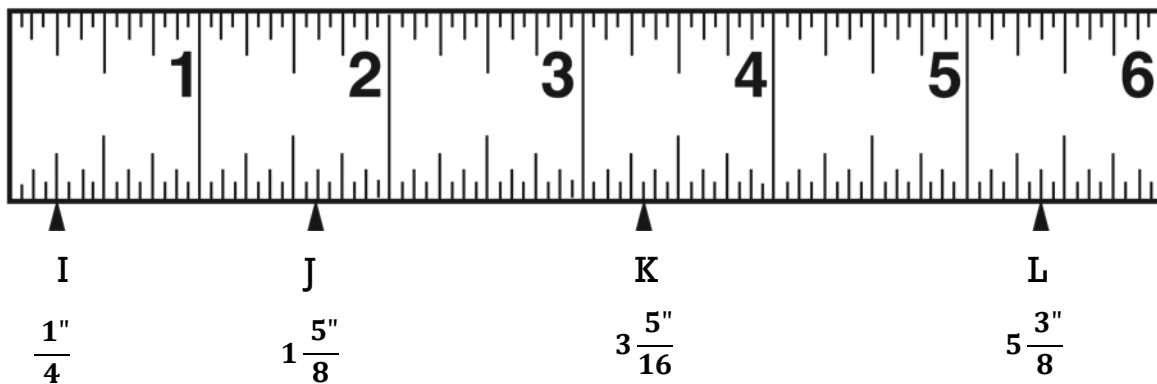
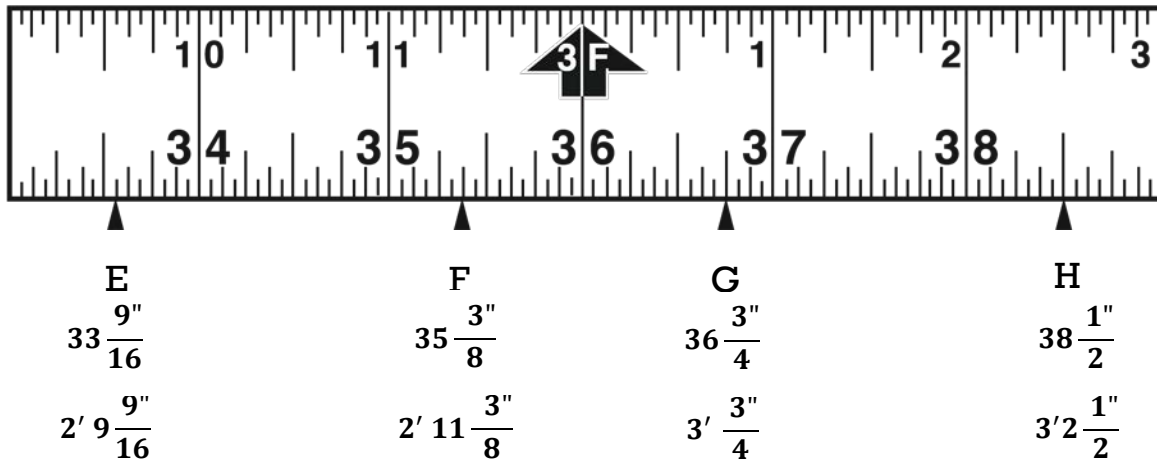
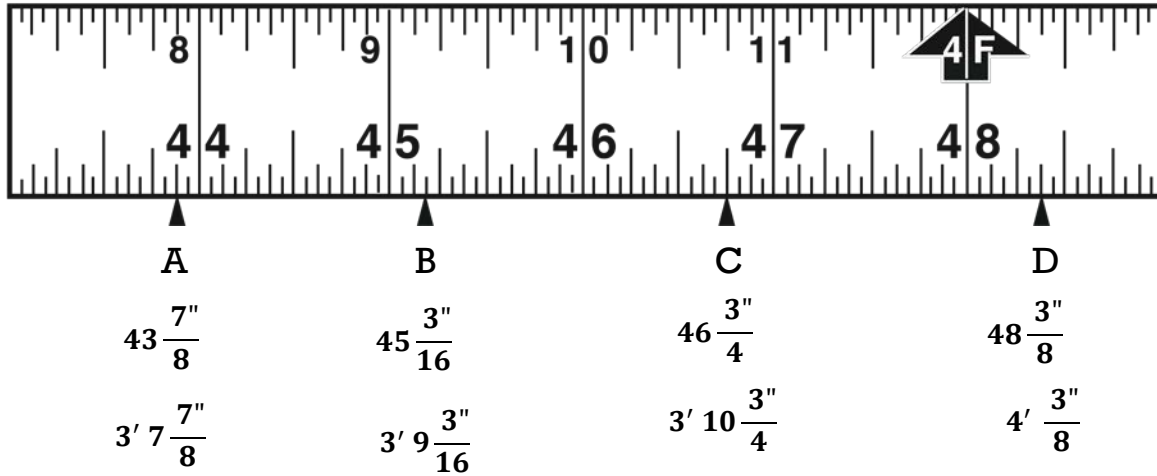
3. _____ $4\frac{3}{16}$

4. _____ $3\frac{3}{4}$

5. _____ $\frac{5}{8}$

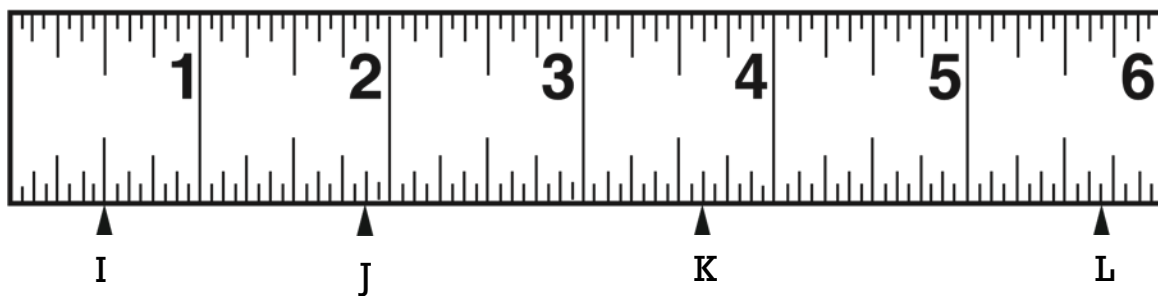
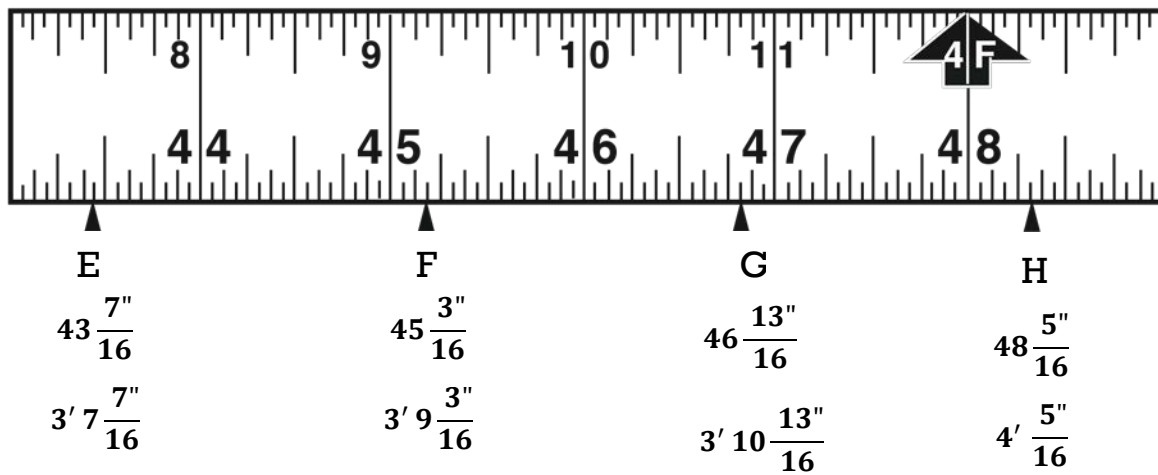
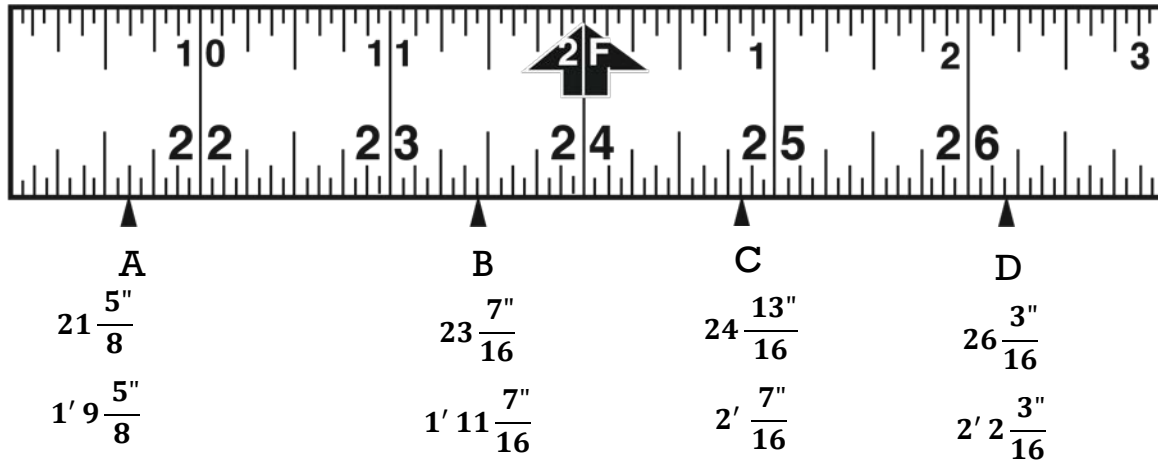


Identify the marks indicated on the tape. Write your answer in inches and, if applicable, feet and inches, directly under each mark.



Measurement Practice 6

Identify the marks indicated on the tape. Write your answer in inches and, if applicable, feet and inches, directly under each mark.



$$\frac{1}{2}$$

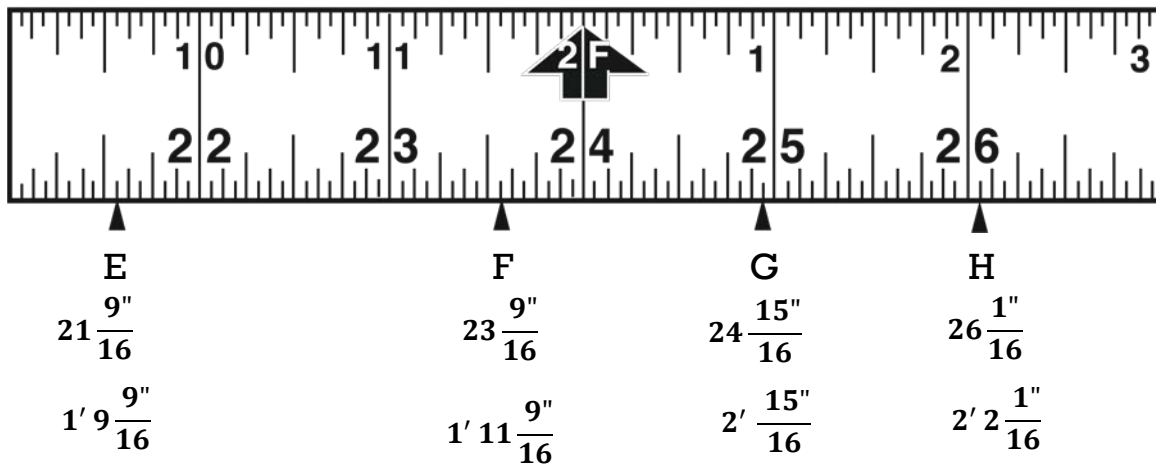
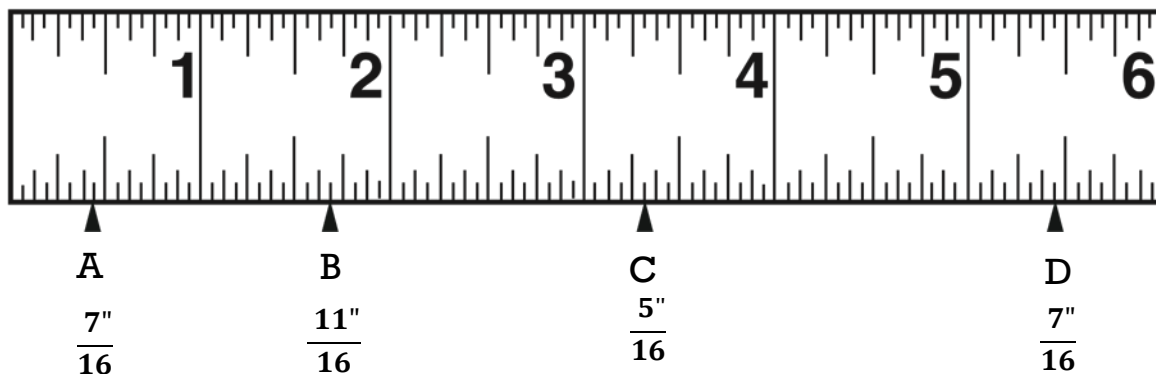
$$1\frac{7}{8}$$

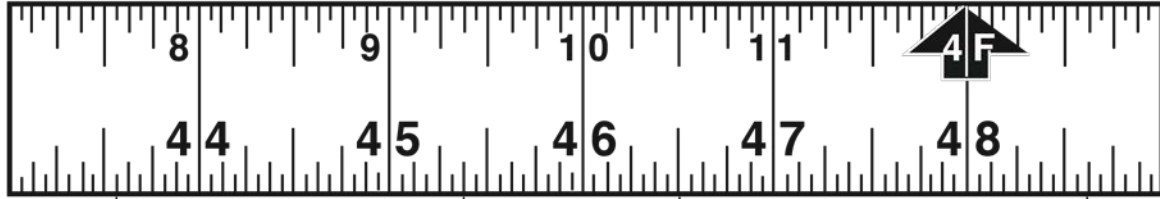
$$3\frac{5}{8}$$

$$5\frac{11}{16}$$

Measurement Practice 7

Identify the marks indicated on the tape. Write your answer in inches and, if applicable, feet and inches, directly under each mark.





I
 $43 \frac{9}{16}$
 $3' 7 \frac{9}{16}$

J
 $45 \frac{3}{8}$
 $3' 9 \frac{3}{8}$

K
 $46 \frac{1}{2}$
 $3' 10 \frac{1}{2}$

L
 $48 \frac{5}{8}$
 $4' \frac{5}{8}$



Measurement Practice 8

Identify the marks indicated on the tape. Write your answer in inches and, if applicable, feet and inches, directly under each mark.

