

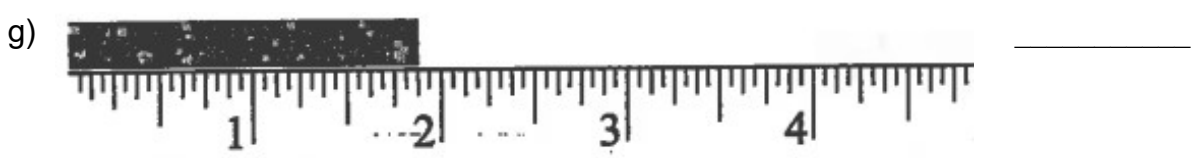
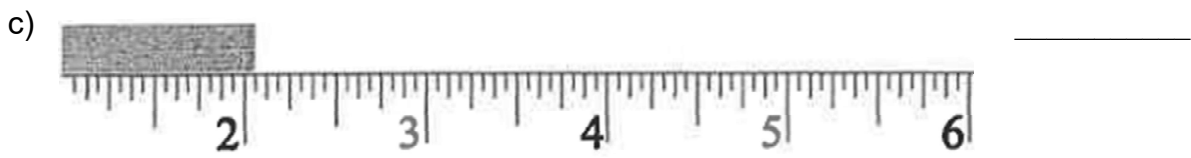
Apprenticeship Math 12
ASSIGNMENT: Imperial Measurement

Name: _____

Date: _____

Please show your work!

1. Find the length of each object below to the nearest $\frac{1}{16}$ th of an inch.



2. Convert the following imperial length measurements. Show your work!

a) $12 \text{ ft} = \underline{\hspace{2cm}} \text{ yd}$

b) $8800 \text{ yd} = \underline{\hspace{2cm}} \text{ mi}$

c) $5 \text{ mi} = \underline{\hspace{2cm}} \text{ ft}$

d) $21 \text{ ft} = \underline{\hspace{2cm}} \text{ in.}$

e) $48 \text{ in.} = \underline{\hspace{2cm}} \text{ yd}$

f) $9 \text{ yd} = \underline{\hspace{2cm}} \text{ ft}$

g) $26\,400 \text{ ft} = \underline{\hspace{2cm}} \text{ mi}$

h) $6 \frac{1}{4} \text{ yd} = \underline{\hspace{2cm}} \text{ ft}$

i) $2 \frac{3}{4} \text{ mi} = \underline{\hspace{2cm}} \text{ yd}$

3. Convert the following imperial length measurements. Show your work!

a) 94 in = _____ ft _____ in.

b) 34 ft = _____ yd _____ ft.

c) 4 ft 11 in. = _____ in.

d) 11 yd 2 ft = _____ ft

4. Find the length of each object below. Express your answers in feet and inches (for example: 4 ft $3\frac{3}{4}$ in.)



5. Ray is building a fence for his garden using panels that are sold in 8 ft lengths. The perimeter of his garden is 32 yd. How many fence panels should he buy?

6. The Olympic Marathon is a running race that is 26 miles 385 yards long. If Sebastian's stride is about 1 yard long, how many strides will he take in a marathon run?

7. Riley bought 50 ft of rope. He cut off pieces that total 34' 8" so far. How much rope does he have left?

8. A pet store has 10 cages for sale. They are 5 cages that are 2'8" wide, 3 cages that are 4'6" wide, and 2 cages that are 1'8" wide. Can these cages fit side by side along a wall that is 30' long?

1. a) $10\frac{4}{1}$ " b) $9\frac{4}{3}$ " c) $2\frac{16}{1}$ " d) $5\frac{2}{1}$ " e) $4\frac{16}{1}$ " f) $8\frac{16}{13}$ " g) $1\frac{8}{7}$ " h) 11"

2. a) 4 yd b) 5 mi c) 26 400 ft d) 252 in e) 1.33 yd or $1\frac{3}{4}$ yd

3. a) 7 ft 10 in b) 11 ft 1 in c) 59 in d) 35 ft

4. a) $2\frac{2}{5}$ in b) $8\frac{16}{7}$ in c) $1\frac{10}{15}$ in d) $3\frac{2}{1}$ in

5. 12 fence panels

6. 46145 steps

7. 184" or 15'4"

8. No, cages are 30'2" long side by side.