

Math Test – Re-Applicants

Conversions – Please convert the following fractions into decimals.

1. $\frac{5}{6} =$ _____

2. $\frac{13}{25} =$ _____

Sequencing – Please put the following numbers in greatest to least sequence.

1. .72, $\frac{3}{4}$, $\frac{2}{3}$, 0.7 _____

2. $4\frac{5}{8}$, 4.6, $4\frac{1}{2}$, 4.58 _____

Word Problems

1. A hospital ordered **950 IV pump batteries** for patient care units. Each battery is eligible for a **refund of \$28.00** if it fails testing. About **3%** of the batteries are expected to fail.

Approximately how much money should the hospital expect to receive in refunds?

- A. \$750
 - B. \$800
 - C. \$825
 - D. \$850
 - E. \$900
2. A metalworker is cutting a **steel rod** for a custom frame. The rod is divided as follows:
- **2/5** of the rod for the base
 - **1/4** of the rod for side supports

What fraction of the rod remains after both cuts are made?

- A. $\frac{7}{20}$
- B. $\frac{3}{20}$

- C. $\frac{1}{2}$
D. $\frac{9}{20}$
3. A framing crew is using lumber for a house addition.
- $\frac{2}{5}$ of the lumber is used for wall framing.
 - $\frac{1}{10}$ of the lumber is used for window supports.

What fraction of the lumber is left after both parts are used?

- A. $\frac{1}{10}$
B. $\frac{1}{2}$
C. $\frac{3}{10}$
D. $\frac{2}{5}$
4. If 23% of the cost of a \$70 repair bill was for parts and the rest was labor, how much did the labor cost?

Fractions

9. Convert the following to **inches**

6 feet $1 \frac{1}{2}$ inch _____

10. Convert the following to **inches**

1 foot $4 \frac{1}{2}$ inches _____

11. Add the two fractions. Write your answer as a mixed number in simplest form

$$\frac{3}{7} + \frac{11}{14} =$$

12. Compare the two fractions. Write the correct symbol in the box (> **greater than**, < **less than**, = **equal to**).

$$\frac{4}{8} \quad \square \quad \frac{1}{2}$$

13. Compare the two fractions. Write the correct symbol in the box (> **greater than**, < **less than**, = **equal to**).

$$\frac{1}{3} \quad \square \quad \frac{2}{8}$$

Area/Perimeter:

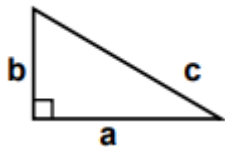
14. Calculate the area of each figure. **Answers must be in square units (ft² or in²).**



$l = 84$ inches $w = 47$ inches

Area: _____

15. Calculate the perimeter of the figure using the given measurements. **Write your answer in linear units (feet or inches).**



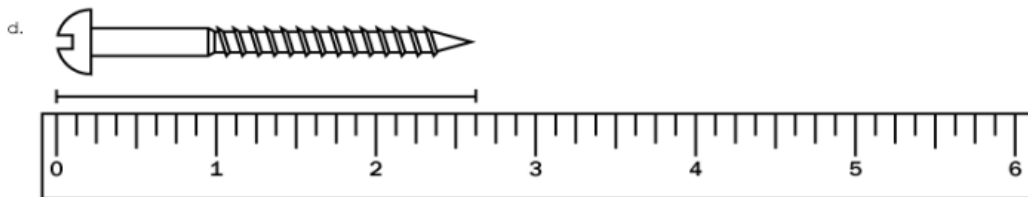
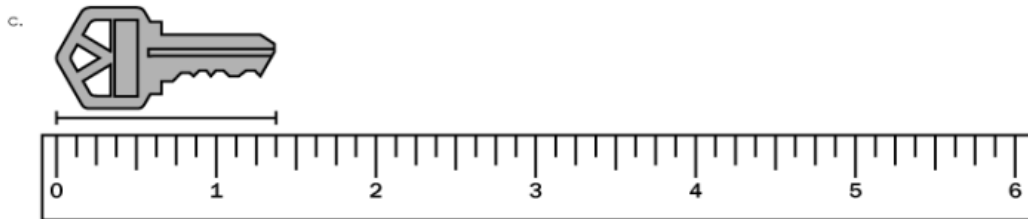
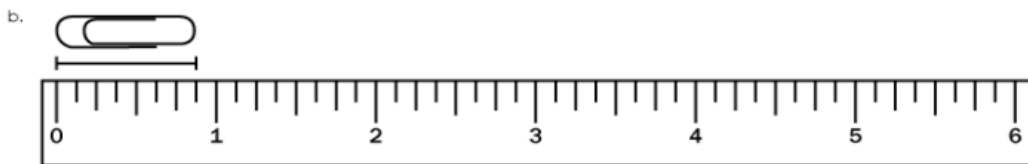
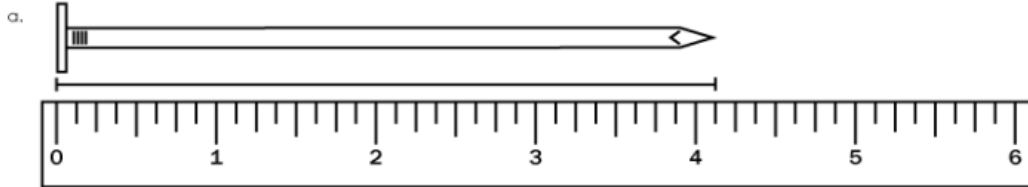
$a = 70$ inches $b = 41$ inches

$c = 81.12$ inches

Perimeter: _____

Measurement

Measure to the nearest $\frac{1}{8}$ inch using the ruler shown.



Measure to the nearest $\frac{1}{8}$ inch using the ruler shown.

a.

