

Name _____ Date _____

GLE Math Pre-Assessment

Solve the problems. Show your work. A calculator is not allowed.

$$\begin{array}{r} 51 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 74 \\ \hline \end{array}$$

$$\begin{array}{r} 4,13 \\ \times 33 \\ \hline \end{array}$$

$$24 \times 679 =$$

$$7,217 \times 486 =$$

$$\begin{array}{r} 403 \\ \times 213 \\ \hline \end{array}$$

$$\begin{array}{r} 4,273 \\ \times 263 \\ \hline \end{array}$$

$$348 \times 96 \times 72 =$$

$$681 \times 27 \times 86 =$$

$$82 \times 576 \times 639 =$$

$$806 \overline{)50,825}$$

$$461 \overline{)40.611}$$

$$194 \overline{)13,824}$$

$$12,880 \div 368 =$$

$$19,224 \div 712 =$$

$$.0635 \times 8,237 =$$

$$430 \times 0.00342 =$$

$$588 \times 2.0691 =$$

Round these numbers to the nearest whole number.

$$3,582.8742 =$$

$$22,901.46579 =$$

$$6,329.6235 =$$

Name _____

Math Profile

Multiplication

2-digit multiplier	/4
3-digit multiplier	/3
3 factors	/3

It would be helpful to review multiplication. YES NO

Division

3-digit divisor	/5
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It would be helpful to review division. YES NO

Multiplication of Decimals

placement of decimal	/3
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It would be helpful to review multiplication of decimals. YES NO

Rounding

to nearest whole number	/3
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It would be helpful to review rounding. YES NO

My Personal Mastery Plan

I will be responsible for mastering these math skills throughout the program. Each benchmark test will be a measure of my proficiency.

Name _____

Date _____

GLE Math Benchmark Test 1

Calculate the volume. Label your answers. Calculators are not allowed.

1. $186'' \times 70'' \times 55''$

Volume = _____

2. $26'' \times 32'' \times 31''$

Volume = _____

3. $103'' \times 42'' \times 32''$

Volume = _____

Change the cubic inches to cubic feet. Divide by 1728. Label your answers.

4. 4,320 cubic inches = _____

5. 12,900 cubic inches = _____

6. 562 cubic inches = _____

Change the cubic feet to cubic meters. Multiply by 0.02832. Label your answers.

7. 1,085 cubic feet = _____

8. 114 cubic feet = _____

9. 1,911 cubic feet = _____

Did you remember to label your answers?

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GLE Math Benchmark Test 2

Calculate the dimensional weight in pounds for this international cargo. Length, width, and height measurements are in inches. **Label your answers.**

Formula: $\frac{lwh}{166}$

1. 64" x 27" x 17"
Dim weight = __

2. 49" x 12" x 14"
Dim weight = _

3. 19" x 19" x 24"
Dim weight = _

Calculate the dimensional weight in pounds for this international cargo. The length, width, and height measurements are in centimeters. **Label your answers.**

Formula: $\frac{lwh}{6000} = \text{dim wt in kg}$ $\text{dim wt in kg} \times 2.20465 = \text{weight in pounds}$

4. 125 cm x 145 cm x 190cm
Dim weight = _____

5. 345 cm x 215 cm x 234 cm
Dim weight = _____

6. 845 cm x 155 cm x 134 cm
Dim weight = _____

Calculate the dimensional weight in pounds for this domestic cargo. The length, width, and height measurements are in inches. **Label your answers.**

Formula: $\frac{lwh}{194}$

7. 42" x 83" x 75"
Dim weight =

8. 88" x 125" x 86"
Dim weight = _____

9. 42" x 29" x 26"
Dim weight = _____

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GLE Math Benchmark Test 3

Calculate the dimensional weight in pounds for this international cargo. Decide which formula to use by looking at the unit of measurement. **Label your answers.**

Formulas: $\frac{lwh \text{ in inches}}{166}$ $\frac{lwh \text{ in centimeters}}{6000} \times 2.20465$

Dimensions	Formula	Answer
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112" x 36" x 49"		
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2. 5" x 16" x 10"

3 216 cm x 60 cm x 48cm

4. 58" x 83" x 61"

5 88 cm x 125 cm x 64cm

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GLE Math Post-Assessment

Solve the problems. Show your work. A calculator is not allowed.

Using the formula *length x width x height*, calculate the volume in cubic inches. Label your answers in cubic inches.

Show your work here.

1. $45'' \times 45'' \times 33''$
Volume =

2. $84'' \times 48'' \times 48''$
Volume =

3. $225'' \times 90'' \times 79''$
Volume =

Calculate the cubic foot measurement by dividing the cubic inches by 1728. Label your answer as cubic feet. Round to the nearest full cubic foot.

4. 41,472 cubic inches = _____ cubic feet

5. 22,464 cubic inches = _____

6. 13,824 cubic inches = _____

Calculate the cubic meters by multiplying the cubic feet by 0.02832. Label your answers as cubic meters.

7. 8,640 cubic feet = _____ cubic meters

8. 15,552 cubic feet = _____

9. 4,320 cubic feet = _____

10. 23,781 cubic feet = _____