

DEV 085 Skill Review Packet

This Skill Review Packet contains a small sample of the skills and concepts that are covered in DEV 085.

Completing the problems in this packet is one way for you to practice your math skills so that you can experience success in your next math class.

You can download additional worksheets for various skills from the Tutoring and Learning website at (tlc.sinclair.edu).

Keep in mind that reviewing your skills for 10-15 minutes a day at least 4 days a week will help to maintain the information presented in DEV 085.

The following concepts and skills are covered in this Skill Review Packet:

- Decimals
- Fractions
- Integers
- Measurement
- Percents
- Proportions
- Ratios/Rates
- Whole Numbers

Directions: Complete each section of problems. Check your answers at the back of the packet. Review any skills that were difficult or unfamiliar. If additional practice is needed or desired, additional worksheets and information can be found at (TLC website address...tlc.sinclair.edu).

WHOLE NUMBERS

Prime Factorization

Square/Cube/Square Root

Add/Subtract/Multiply/Divide

Exponential Notation

Order of Operations

Using exponential notation, write the prime factorization for each value.

- | | |
|-------|---------|
| 1) 10 | 6) 63 |
| 2) 42 | 7) 48 |
| 3) 51 | 8) 102 |
| 4) 39 | 9) 75 |
| 5) 98 | 10) 145 |

Find the square, cube or square root of the value given.

- | | | |
|-----------|-----------|------------------|
| 1) 8^2 | 6) 3^3 | 11) $\sqrt{81}$ |
| 2) 11^2 | 7) 4^3 | 12) $\sqrt{25}$ |
| 3) 4^2 | 8) 2^3 | 13) $\sqrt{169}$ |
| 4) 15^2 | 9) 5^3 | 14) $\sqrt{47}$ |
| 5) 12^2 | 10) 9^3 | 15) $\sqrt{120}$ |

Solve each by using the operation correctly.

- | | | | |
|----------------------|-------------------|----------------------|------------------------|
| 1) $23 + 156$ | 6) $51 - 37$ | 11) $(235)(8)$ | 16) $345 \div 3$ |
| 2) $199 + 5213$ | 7) $378 - 296$ | 12) $355 \cdot 12$ | 17) $1728 \div 12$ |
| 3) $5600 + 238 + 16$ | 8) $5001 - 2468$ | 13) $(14)(57)$ | 18) $10,225 \div 25$ |
| 4) $9920 + 8836$ | 9) $711 - 585$ | 14) $247 \cdot 1000$ | 19) $5719 \div 301$ |
| 5) $45 + 92 + 77$ | 10) $8824 - 7097$ | 15) $(12)(52)(100)$ | 20) $189,000 \div 100$ |

Evaluate each problem written in exponential notation. Write the problems in expanded form in exponential notation.

- | | |
|---------------------|--|
| 1) 3^2 | 6) $2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$ |
| 2) 2^5 | 7) $3 \cdot 3 \cdot 3 \cdot 4 \cdot 4$ |
| 3) 5^4 | 8) $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot 5$ |
| 4) $6^2 \cdot 2^4$ | 9) $2 \cdot 5 \cdot 3 \cdot 5 \cdot 2 \cdot 5$ |
| 5) $2^5 \cdot 10^3$ | 10) $5 \cdot 3 \cdot 5 \cdot 2$ |

Solve each by following order of operations correctly.

- | | |
|---------------------------------|--|
| 1) $904 - (45 \div 15)$ | 6) $945 \div 9 \cdot 5$ |
| 2) $2,625 \div (5)^2 + (19)^2$ | 7) $75 - 15 + 30 \div 3$ |
| 3) $11(14) - (43 - 19 + 72)$ | 8) $(100 - 15 + 45 \div 5) \cdot 200$ |
| 4) $4(10 - 3) + 9(7 + 2)^3$ | 9) $5(20 - 13) + 9(5)^3$ |
| 5) $200 \div 25(2) + 391 - 143$ | 10) $\{2^5 + (5)2 + 14\} \cdot 0 + 8(4 + 7)$ |

SIGNED NUMBERS

Miscellaneous Skills - Comparing/Opposites/Absolute Value

Translate phrases to signed values

Add/Subtract/Multiply/Divide

Exponential Notation

Miscellaneous Skills with Signed Numbers:

Use $>$, $<$, or $=$ to compare each.

- 1) -3 ___ 8
- 2) 5 ___ -9
- 3) -6 ___ -8
- 4) 25 ___ 87
- 5) -16 ___ -11

Find the opposite of each.

- 1) -14
- 2) 23
- 3) 3
- 4) -145
- 5) -66

Find the absolute value of each

- 1) $|-5|$
- 2) $|27|$
- 3) $|-18|$
- 4) $|-13|$
- 5) $|12|$

Translate the following phrases into Signed Numbers. Remember to label your answers:

- | | |
|------------------------------|---------------------------|
| 1) 5 yard gain | 6) Increase by 10 degrees |
| 2) 12 feet below the surface | 7) Ascend 15 miles |
| 3) \$5 deposit | 8) \$123 debit |
| 4) \$72 credit | 9) Advanced 27 yards |
| 5) 11 degrees below zero | 10) Loss of 14 points |

Solve each by using the operation correctly.

- | | |
|---------------|-----------------|
| 1) $-3 + 5$ | 6) $-25 - -16$ |
| 2) $8 + -9$ | 7) $-36 - 14$ |
| 3) $-5 + -8$ | 8) $56 - -162$ |
| 4) $25 + 67$ | 9) $163 - 87$ |
| 5) $-6 + -11$ | 10) $118 - 247$ |

Solve each by using the operation correctly.

- | | |
|---------------------|-------------------|
| 1) $-3 \bullet -4$ | 6) $-45 \div 5$ |
| 2) $19 \bullet -5$ | 7) $30 \div -2$ |
| 3) $-5 \bullet -6$ | 8) $-25 \div -5$ |
| 4) $-25 \bullet -3$ | 9) $-150 \div 75$ |
| 5) $-2 \bullet 3$ | 10) $-18 \div -9$ |

Expand and calculate each problem.

- 1) $(-5)^2$
- 2) -3^2
- 3) $(-2)^5$
- 4) $(-3)^4$
- 5) -8^3

FRACTIONS

Change Mixed Numbers to Improper Fractions and vice versa

Reduce/Simplify

Add/Subtract/Multiply/Divide/Complex Fractions

Exponential Notation

Order of Operations

Change the Improper Fractions to Mixed or Whole Numbers.

1) $\frac{23}{5}$

2) $\frac{18}{4}$

3) $\frac{53}{8}$

4) $\frac{95}{10}$

5) $\frac{143}{4}$

Change the Mixed or Whole Numbers to Improper Fractions.

1) $4\frac{2}{7}$

2) $2\frac{9}{11}$

3) 19

4) 21

5) $1\frac{14}{15}$

Reduce/simplify each to lowest terms.

1) $\frac{22}{50}$

2) $\frac{18}{34}$

3) $\frac{68}{72}$

4) $\frac{45}{90}$

5) $\frac{12}{30}$

Find the product for each. Reduce/simplify to lowest terms.

1) $\frac{1}{2} \times \frac{1}{2}$

3) $\frac{1}{4} \times \frac{1}{3}$

5) $\frac{2}{3} \times \frac{1}{4}$

7) $\frac{2}{3} \times \frac{1}{8}$

9) $2x \times \frac{1}{3}$

2) $\frac{3}{4} \times \frac{8}{9}$

4) $4\frac{3}{5} \times 2\frac{1}{5}$

6) $3\frac{1}{4} \times 1\frac{1}{8}$

8) $\frac{3}{10} \times \frac{5}{6}$

10) $\frac{2}{3} \times 7$

Find the quotient for each. Reduce/simplify to lowest terms.

1) $\frac{1}{2} \div \frac{2}{3}$

3) $\frac{2}{3} \div \frac{1}{4}$

5) $\frac{3}{4} \div 2$

7) $2\frac{2}{9} \div 5\frac{1}{2}$

2) $\frac{15}{16} \div \frac{1}{4}$

4) $\frac{2}{9} \div \frac{1}{3}$

6) $\frac{5}{6} \div 10$

8) $8\frac{1}{4} \div 2\frac{3}{8}$

9) $\frac{\frac{3}{5}}{\frac{2}{3}}$

10) $\frac{3\frac{1}{8}}{1\frac{3}{7}}$

Find the sum of each. Reduce/simplify to lowest terms.

1) $\frac{5}{6} + \frac{1}{4}$

3) $\frac{3}{4} + \frac{2}{3}$

5) $4\frac{1}{4} + 2\frac{2}{3}$

7) $\frac{1}{2} + \frac{7}{10}$

9) $\frac{3}{4} + \frac{2}{3} + \frac{1}{6}$

2) $\frac{1}{10} + \frac{2}{5}$

4) $\frac{3}{8} + \frac{3}{4}$

6) $5\frac{1}{2} + 4\frac{5}{6}$

8) $\frac{5}{6} + \frac{3}{8}$

10) $3\frac{3}{5} + 6\frac{3}{4}$

Find the difference for each. Reduce/simplify to lowest terms.

1) $\frac{5}{8} - \frac{3}{16}$

3) $\frac{3}{4} - \frac{1}{2}$

5) $7 - \frac{3}{11}$

7) $12\frac{1}{2} - 4\frac{3}{4}$

9) $6\frac{7}{8} - 2\frac{1}{4}$

2) $\frac{7}{8} - \frac{1}{4}$

4) $\frac{5}{6} - \frac{1}{3}$

6) $4\frac{3}{5} - 2\frac{1}{2}$

8) $6\frac{1}{2} - 2$

10) $3\frac{1}{8} - 2\frac{4}{5}$

Expand and calculate each.

1) $\left(\frac{3}{5}\right)^2$

2) $\left(\frac{2}{7}\right)^3$

3) $\left(\frac{1}{4}\right)^3$

4) $\left(\frac{4}{5}\right)^2$

5) $\left(\frac{2}{3}\right)^4$

Solve each by following order of operations correctly.

1) $15\frac{2}{5} - 3\frac{3}{4} \cdot 2$

2) $\left(5\frac{1}{2} + 5\right) \div 7$

3) $\frac{3}{4} \div \frac{3}{8} \cdot 6\frac{1}{2} - 4\frac{3}{4}$

4)
$$\frac{5\frac{1}{2} + 4\frac{3}{4}}{8\frac{3}{4} + 1\frac{1}{4}}$$

5)
$$\frac{3\left(\frac{3}{5} - \frac{1}{6}\right) \div 2}{2\left(1\frac{7}{8} + 2\frac{3}{4}\right)}$$

RATIOS/RATES

Simplify Ratios

Find Unit Rates

Simplify each ratio. Be sure to label your answers appropriately.

- 1) Write a simplified ratio for 9 blue socks to 12 white socks.
- 2) Write a simplified ratio for 24 red pencils to 30 blue pencils.
- 3) Using the word "Sinclair," write a simplified ratio of vowels to consonants.
- 4) Using the number "94,815,912" write a simplified ratio for odd numbers to even numbers.
- 5) Write a simplified ratio for 15 red candies to 27 white candies.

Find the unit rate for each. Be sure to label your answers appropriately.

- 1) Write a simplified unit rate for 544 miles in 8 hours.
- 2) Write a simplified unit rate for 47 pages in two hours.
- 3) Write a unit rate in simplest form for 388 miles on 20 gallons.
- 4) Write a unit rate in simplest form for \$3.29 for 4 cans.
- 5) Write a unit rate in simplest form for 25 pounds in 4 months.

PROPORTIONS/PERCENTS

Solve Stated Proportions

Use Proportions to Solve Percent Problems

Solve each proportion for the missing value.

$$1) \frac{2}{5} = \frac{10}{x}$$

$$2) \frac{3}{8} = \frac{x}{24}$$

$$3) \frac{4}{5} = \frac{6}{x}$$

$$4) \frac{7}{10} = \frac{x}{105}$$

$$5) \frac{x}{4} = \frac{12}{16}$$

$$6) \frac{5}{x} = \frac{15}{25.5}$$

$$7) \frac{x}{2.5} = \frac{4}{5}$$

$$8) \frac{3.2}{x} = \frac{16}{25}$$

$$9) \frac{1\frac{1}{2}}{3} = \frac{2}{x}$$

$$10) \frac{2}{5} = \frac{x}{17.5}$$

Solve each problem.

- 1) 45 is 20% of what?
- 2) 54 is what percent of 72?
- 3) Find 5% of 16.
- 4) 7.15 is 5.5% of what?
- 5) Find 2% of 250.
- 6) Find 35% of 80.
- 7) 60 is 50% of what?
- 8) Find 7½ % of \$12.
- 9) 25 is what percent of 80?
- 10) 34 is what percent of 68?

DECIMALS

Rounding

Comparing

Add/Subtract/Multiply/ Exponential Notation/Divide

Order of Operations

Round each value to the nearest tenth and to the nearest hundredths place.

- 1) 3.4506
- 2) 120.9842
- 3) 308.9957
- 4) 87.0032
- 5) 19.7685

Use $>$, $<$, or $=$ to compare the following values.

- 1) 3.5 _____ 3.25
- 2) 2.15 _____ 2.19
- 3) 30.115 _____ 301.15
- 4) 205.1 _____ 205.09
- 5) 89.013 _____ 98.013

Solve each problem by using the operation correctly.

- | | |
|--------------------|-----------------------|
| 1) $2.3 + 5.4$ | 11) $6.3 \cdot 0.81$ |
| 2) $8.23 + 2.001$ | 12) $12.3 \cdot 6$ |
| 3) $6.02 + 32$ | 13) $0.45 \cdot 0.02$ |
| 4) $2.5 + 6.7$ | 14) $(0.5)^3$ |
| 5) $6.2 + 3.11$ | 15) $(0.03)^4$ |
| 6) $17.23 - 5.8$ | 16) $2.55 \div 15$ |
| 7) $12.05 - 8.936$ | 17) $8.65 \div 25$ |
| 8) $10.6 - 2.61$ | 18) $20 \div 1.25$ |
| 9) $10 - 5.41$ | 19) $4.503 \div 0.03$ |
| 10) $5.64 - 5.143$ | 20) $0.15 \div 75$ |

Solve each by following order of operations correctly.

- 1) $4 + (2.5 \cdot 3) - 2$
- 2) $100 \div 2.5 + (5)^2$
- 3) $3 - 2(2.28 \div 4)$
- 4) $4.5 - 3.9 \cdot 0.2 + 14$
- 5) $0.72 + 5.3 - (1.1)^2$

MEASUREMENT

American Conversions

Metric Conversions

Conversions Across Systems

Make the following conversions. Leave your answer as a whole number, mixed number or fraction.

- 1) 4 ft = ____ in
- 2) 22 qt = ____ gal
- 3) 9 yd = ____ in
- 4) 26 oz = ____ lbs
- 5) 27 in = ____ yd

- 6) 5 hr = ____ min
- 7) 8 lbs = ____ oz
- 8) 8 ft = ____ yd
- 9) 60 hr = ____ days
- 10) 44 oz = ____ c

Make the following conversions. Do not round your answers.

- 1) 4 km = ____ cm
- 2) 6 L = ____ dL
- 3) 2.6 m = ____ km
- 4) 4.8 hL = ____ dL
- 5) 1.5 g = ____ kg

- 6) 1825 cg = ____ kg
- 7) 0.2 dL = ____ hL
- 8) 0.3 kg = ____ cg
- 9) 202 dm = ____ mm
- 10) 14 mm = ____ cm

Use the following chart to make the following conversions. Round answers to the nearest hundredth if necessary.

EQUIVALENT MEASURES CHART

American to Metric

1 mi = 1.61 km
1 yd = 0.914 m
1 ft = 0.305 m
1 in = 2.54 cm
1 gal = 3.79 L
1 qt = 0.946 L
1 lb = 0.454 kg
1 oz = 28.35 g

- 1) 3 mi = ____ km
- 2) 0.2 qt = ____ L
- 3) 185 cm = ____ in
- 4) 415 km = ____ mi
- 5) 36 in = ____ cm

- 6) 0.5 mi = ____ km
- 7) 0.9 lb = ____ kg
- 8) 0.75 lbs = ____ kg
- 9) 46 L = ____ qt
- 10) 65 km = ____ mi

WHOLE NUMBERS

Prime Factorization
Square/Cube/Square Root
Add/Subtract/Multiply/Divide
Exponential Notation
Order of Operations

KEY

Using exponential notation, write the prime factorization for each value.

- | | |
|------------------------|-------------------------|
| 1) $2 \cdot 5$ | 6) $3^2 \cdot 7$ |
| 2) $2 \cdot 3 \cdot 7$ | 7) $2^4 \cdot 3$ |
| 3) $3 \cdot 17$ | 8) $2 \cdot 3 \cdot 17$ |
| 4) $3 \cdot 13$ | 9) $3 \cdot 5^2$ |
| 5) $2 \cdot 7^2$ | 10) $5 \cdot 29$ |

Find the square, cube or square root of the value given.

- | | | |
|--------|---------|----------------------|
| 1) 64 | 6) 27 | 11) = 9 |
| 2) 121 | 7) 64 | 12) = 5 |
| 3) 16 | 8) 8 | 13) = 13 |
| 4) 225 | 9) 125 | 14) Approximately 7 |
| 5) 144 | 10) 729 | 15) Approximately 11 |

Solve each by using the operation correctly.

- | | | | |
|-----------|----------|-------------|----------|
| 1) 179 | 6) 14 | 11) 1880 | 16) 115 |
| 2) 5412 | 7) 82 | 12) 4260 | 17) 144 |
| 3) 5854 | 8) 2533 | 13) 798 | 18) 409 |
| 4) 18,756 | 9) 126 | 14) 247,000 | 19) 19 |
| 5) 214 | 10) 1727 | 15) 62,400 | 20) 1890 |

Evaluate each problem written in exponential notation. Write the problems in expanded form in exponential notation.

- | | |
|-----------|----------------------------|
| 1) 9 | 6) $2^3 \cdot 3^2$ |
| 2) 32 | 7) $3^3 \cdot 4^2$ |
| 3) 625 | 8) $2^5 \cdot 5^2$ |
| 4) 576 | 9) $2^2 \cdot 3 \cdot 5^3$ |
| 5) 32,000 | 10) $2 \cdot 3 \cdot 5^2$ |

Solve each by following order of operations correctly.

- | | |
|---------|-----------|
| 1) 901 | 6) 525 |
| 2) 466 | 7) 70 |
| 3) 58 | 8) 18,800 |
| 4) 6589 | 9) 1160 |
| 5) 264 | 10) 88 |

SIGNED NUMBERS

Miscellaneous Skills - Comparing/Opposites/Absolute Value
Translate phrases to signed values
Add/Subtract/Multiply/Divide
Exponential Notation

KEY

Miscellaneous Skills with Signed Numbers:

Use $>$, $<$, or $=$ to compare each.

- 1) $<$
- 2) $>$
- 3) $>$
- 4) $<$
- 5) $<$

Find the opposite of each.

- 1) 14
- 2) -23
- 3) -3
- 4) 145
- 5) 66

Find the absolute value of each

- 1) 5
- 2) 27
- 3) 18
- 4) 13
- 5) 12

Translate the following phrases into Signed Numbers. Remember to label your answers:

- | | |
|-------------|----------------|
| 1) 5 yards | 6) 10^0 |
| 2) -12 feet | 7) 15 miles |
| 3) \$5 | 8) -\$123 |
| 4) \$72 | 9) 27 yards |
| 5) -11^0 | 10) -14 points |

Solve each by using the operation correctly.

- | | |
|--------|----------|
| 1) 2 | 6) -9 |
| 2) -1 | 7) -50 |
| 3) -13 | 8) 218 |
| 4) 92 | 9) 76 |
| 5) -17 | 10) -129 |

Solve each by using the operation correctly.

- | | |
|--------|--------|
| 1) 12 | 6) -9 |
| 2) -95 | 7) -15 |
| 3) 30 | 8) 5 |
| 4) 75 | 9) -2 |
| 5) -6 | 10) 2 |

Expand and calculate each problem.

- 1) 25
- 2) -9
- 3) -32
- 4) 81
- 5) -512

FRACTIONS

Change Mixed Numbers to Improper Fractions and vice versa

Reduce/Simplify

Add/Subtract/Multiply/Divide/Complex Fractions

Exponential Notation

Order of Operations

KEY

Change the Improper Fractions to Mixed or Whole Numbers.

1) $4\frac{3}{5}$

2) $4\frac{1}{2}$

3) $6\frac{5}{8}$

4) $9\frac{1}{2}$

5) $35\frac{3}{4}$

Change the Mixed or Whole Numbers to Improper Fractions.

1) $\frac{30}{7}$

2) $\frac{31}{11}$

3) $\frac{19}{1}$

4) $\frac{21}{1}$

5) $\frac{29}{15}$

Reduce/simplify each to lowest terms.

1) $\frac{11}{25}$

2) $\frac{9}{17}$

3) $\frac{17}{18}$

4) $\frac{1}{2}$

5) $\frac{2}{5}$

Find the product for each. Reduce/simplify to lowest terms.

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

3) $\frac{1}{12}$

5) $\frac{1}{6}$

7) $\frac{1}{12}$

9) $\frac{2}{3}$

2) $\frac{2}{3}$

4) $10\frac{3}{25}$

6) $3\frac{21}{32}$

8) $\frac{1}{4}$

10) $4\frac{2}{3}$

Find the quotient for each. Reduce/simplify to lowest terms.

1) $\frac{3}{4}$

3) $2\frac{2}{3}$

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

7) $\frac{40}{99}$

9) $\frac{9}{10}$

2) $3\frac{3}{4}$

4) $\frac{2}{3}$

6) $\frac{1}{12}$

8) $3\frac{9}{19}$

10) $2\frac{3}{16}$

Find the sum of each. Reduce/simplify to lowest terms.

1) $1\frac{1}{12}$

3) $1\frac{5}{12}$

5) $6\frac{11}{12}$

7) $1\frac{1}{5}$

9) $1\frac{7}{12}$

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

4) $1\frac{1}{8}$

6) $10\frac{1}{3}$

8) $1\frac{5}{24}$

10) $10\frac{7}{20}$

KEY

Find the difference for each. Reduce/simplify to lowest terms.

1) $\frac{7}{16}$

3) $\frac{1}{4}$

5) $6\frac{8}{11}$

7) $7\frac{3}{4}$

9) $4\frac{5}{8}$

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

4) $\frac{1}{2}$

6) $2\frac{1}{10}$

8) $4\frac{1}{2}$

10) $\frac{13}{40}$

Expand and calculate each.

1) $\frac{9}{25}$

2) $\frac{8}{343}$

3) $\frac{1}{64}$

4) $\frac{16}{25}$

5) $\frac{16}{81}$

Solve each by following order of operations correctly.

1) $7\frac{9}{10}$

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

3) $8\frac{1}{4}$

4) $1\frac{1}{40}$

5) $\frac{13}{185}$

RATIOS/RATES

Simplify Ratios
Find Unit Rates

KEY

Simplify each ratio. Be sure to label your answers appropriately.

- 1) 3 blue socks : 4 white socks
- 2) 4 red pencils : 5 blue pencils
- 3) 3 vowels : 5 consonants
- 4) 5 odd numbers : 3 even numbers
- 5) 5 red candies : 9 white candies

Find the unit rate for each. Be sure to label your answers appropriately.

- 1) 68 mph
- 2) 23.5 pg/hr
- 3) 19.4 mpg
- 4) \$0.82/can
- 5) 6.25 lbs/mo

PROPORTIONS/PERCENTS

Solve Stated Proportions
Use Proportions to Solve Percent Problems

Solve each proportion for the missing value.

- | | |
|---------------|--------------|
| 1) $X = 25$ | 6) $X = 8.5$ |
| 2) $X = 9$ | 7) $X = 2$ |
| 3) $X = 7.5$ | 8) $X = 5$ |
| 4) $X = 73.5$ | 9) $X = 4$ |
| 5) $X = 3$ | 10) $X = 7$ |

Solve each problem.

- | | |
|--------|-----------|
| 1) 225 | 6) 28 |
| 2) 75% | 7) 120 |
| 3) 0.8 | 8) \$0.90 |
| 4) 130 | 9) 31.25% |
| 5) 5 | 10) 50% |

DECIMALS

Rounding

Comparing

Add/Subtract/Multiply/ Exponential Notation/Divide

Order of Operations

KEY

Round each value to the nearest tenth and to the nearest hundredths place.

- | | |
|----------|--------|
| 1) 3.5 | 3.45 |
| 2) 121.0 | 120.98 |
| 3) 309.0 | 309.00 |
| 4) 87.0 | 87.00 |
| 5) 19.8 | 19.77 |

Use $>$, $<$, or $=$ to compare the following values.

- | | |
|----|-----|
| 1) | $>$ |
| 2) | $<$ |
| 3) | $<$ |
| 4) | $>$ |
| 5) | $<$ |

Solve each problem by using the operation correctly.

- | | |
|-----------|----------------|
| 1) 7.7 | 11) 5.103 |
| 2) 10.231 | 12) 73.8 |
| 3) 38.02 | 13) 0.009 |
| 4) 9.2 | 14) 0.125 |
| 5) 9.31 | 15) 0.00000081 |
| 6) 11.43 | 16) 0.17 |
| 7) 3.114 | 17) 0.346 |
| 8) 7.99 | 18) 16 |
| 9) 4.59 | 19) 150.1 |
| 10) 0.497 | 20) 0.002 |

Solve each by following order of operations correctly.

- | |
|----------|
| 1) 9.5 |
| 2) 65 |
| 3) 1.86 |
| 4) 17.72 |
| 5) 4.81 |

MEASUREMENT

American Conversions
Metric Conversions
Conversions Across Systems

KEY

Make the following conversions. Leave your answer as a whole number, mixed number or fraction.

1) 48 in

2) $5\frac{1}{2}$ gal

3) 324 in

4) $1\frac{5}{8}$ lbs

5) $\frac{3}{4}$ yd

6) 300 min

7) 128 oz

8) $2\frac{2}{3}$ yd

9) $2\frac{1}{2}$ days

10) $5\frac{1}{2}$ c

Make the following conversions. Do not round your answers.

1) 400,000 cm

2) 60 dL

3) 0.0026 km

4) 48 dL

5) 0.0015 kg

6) 0.01825 kg

7) 0.02 hL

8) 30,000 cg

9) 20,200 mm

10) 1.4 cm

Use the following chart to make the following conversions. Round answers to the nearest hundredth if necessary.

EQUIVALENT MEASURES CHART

American to Metric

1 mi=1.61 km 1 yd=0.914

m 1 ft =0.305 m 1 in=2.54

cm 1 gal=3.79 L

qt=0.946 L 1 lb= 0.454

kg 1 oz=28.35 g

1) 4.83 km

2) 0.19 L

3) 72.83 in

4) 257.76 mi

5) 91.44 cm

6) 0.81 km

7) 0.41 kg

8) 0.34 kg

9) 48.63 qt

10) 40.37 mi