

PRACTICE ASSESSMENT FOR ENTRY IN MATH 10

INSTRUCTIONS:

- ◆ Answer as many questions as you can.
- ◆ Please show ALL your work on this sheet.
- ◆ Calculators are NOT permitted.

If you forget how to do something, the practice assessment includes links to videos that will help you answer the question. You may wish to maximize the videos on your computer screen.

Section A – Fundamental (BMTH 021)

A.1 Write a numeral for this word name:

two hundred four thousand, eighty-two

[Click Here for a Worksheet for this Type of Problem](#)

See answer on page 5

A.2 Draw a box around the largest number:

1955 2554 568 2801

See answer on page 5

A.3 Round 24,259 to the nearest hundred:

[Click Here for the Video Solution](#)

A.5 Write these common fractions as decimals.

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

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

c) $\frac{30}{1000}$

[Click Here for the Video Solution](#)

A.6 Mike built a rectangular dog pen that is 21 feet long and has a perimeter of 78 feet. What is the width of Mike's dog pen?

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Section B - Operations

[Click Here to Start Studying Basic Operations from the Beginning](#)

B.1 Add $709 + 996$

[Click Here for the Video Solution](#)

B.2 Subtract $9,601 - 8,023$

[Click Here for the Video Solution](#)

B.3 Multiply a)
$$\begin{array}{r} 32 \\ \times 18 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 99 \\ \times 88 \\ \hline \end{array}$$

[Click Here for the Video Solution](#)

B.4 Divide $7182 \div 42$

[Click Here for the Video Solution](#)

B.5 Calculate the following. $8 + (5)(4) - (6 + 10 \div 2) + 44$

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Section C – Fractions

[Click Here to Start Studying Fractions from the Beginning](#)

C.1 Add then reduce the answer to lowest terms.

$$19\frac{3}{18} + 18\frac{2}{3}$$

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C.2 Subtract then reduce the answer to lowest terms.

$$7\frac{6}{9} - 3\frac{2}{5}$$

[Click Here for the Video Solution](#)

C.3 Multiply then reduce the answer to the lowest terms.

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

[Click Here for the Video Solution](#)

C.4 Divide then reduce the answer to the lowest terms.

$$\frac{2}{5} \div \frac{7}{3}$$

[Click Here for the Video Solution](#)

C.5 Katie and Tyler are working at their lemonade stand. An hour ago, their pitcher of lemonade was $\frac{7}{8}$ full. Since then, they have sold $\frac{1}{2}$ of a pitcher of lemonade. What fraction of a pitcher of lemonade do they have left?

See answer on page 5

[Click Here for the Solution to a Similar Problem](#)

Section D – Fundamental Part 2

D.1 Convert to a decimal: 59.2%

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D.2 Convert to a percent: 1.501

[Click Here for the Video Solution](#)

D.3 You invested \$95.00 in the stock market (your portfolio) and your investment grew by 15%. How much money do you have now?

[Click Here for the Video Solution](#)

D.4 Find n $\frac{8}{36} = \frac{10}{n}$

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D.5 A recipe for oatmeal cookies calls for 2 cups of flour for every 3 cups of oatmeal. How much flour is needed for a big batch of cookies that uses 9 cups of oatmeal?

[Click Here for the Video Solution](#)

D.6 Evaluate $5^3 =$

[Click Here for the Video Solution](#)

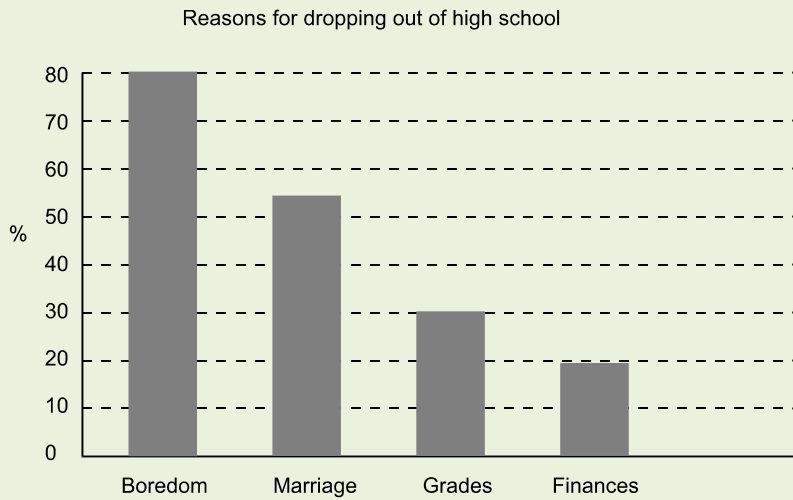
D.7 Evaluate $\sqrt{100} =$

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D.8 The number of hours of screen time viewed on all electronic devices per week for one person for 8 weeks is: 23, 29, 20, 32, 23, 21, 33, 25.
Find the mean (average), median, and mode.

[Click Here for the Video Solution](#)

D.9 Use this bar graph to answer the following questions (respondents could select more than one answer):



a. What reason was most common for dropping out?

b. What percentage dropped out because of grades?

See answer on page 5

Answers:

A1 – 204,082 A2 – 2,801 is the largest number

C5 - $\frac{3}{8}$

D9 - a) boredom b) 30%

PRACTICE ASSESSMENT FOR ENTRY IN MATH 11

INSTRUCTIONS:

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Section E- Intermediate Algebra 1 (BMTH 033)

E.1 Evaluate the expression $a^2 + 10b - 8$

when $a = 7$ and $b = -4$

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E.2 Simplify a) $2(3x + 5)$

b) $7(3y - 5) - 2(10+4y)$

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E.3 Solve $5x - 11 = 42$

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E.4 Solve for L $P = 2L + 2W$

[Click Here for the Video Solution](#)

E.5 Simplify $\sqrt[3]{64a^6b^3c^9}$

[Click Here for the Video Solution](#)

E.6 Simplify $(xy)^{-2} \left(\frac{2x^2}{y}\right)^4$

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E. 7 Expand and simplify $(3x + 2)(5x - 7)$

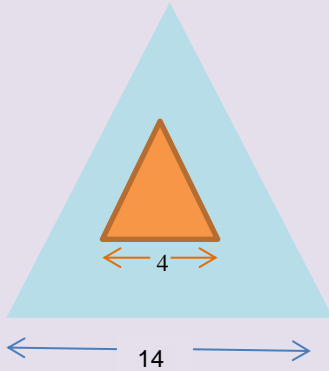
[Click Here for the Video Solution](#)

E.8 Simplify $\frac{6m}{7m^2n} - \frac{5n^3}{3mn^4}$

[Click Here for the Video Solution](#)

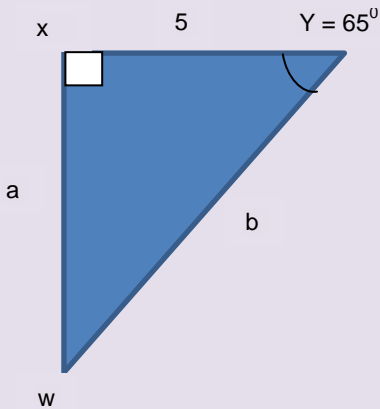
Section F- Intermediate Algebra 2 (BMTH 034)

F.1 The 2 triangles below are equilateral (the length of each of the sides are the same). Find the area of the region shaded in blue if the smaller triangle has side length = 4 and the bigger triangle has side length = 14.



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F.2 Find the unknown sides (a and b) and angles (x and w) of the following right triangle to the nearest tenth.



[Click Here for the Video Solution](#)

F.3 Expand $(7x + 10)^2$

[Click Here for the Video Solution](#)

F.4 Factor completely

$$45x^2 - 125$$

[Click here for the Video Solution](#)

F.5 Factor completely

$$t^2 + 8t + 15$$

[Click here for the Video Solution](#)

F.6 Solve $s^2 - 2s - 35 = 0$

[Click here for the Video Solution](#)

F.7 Solve this system of equations (i.e. find one value for both x and y that will satisfy both equations)

$$x + 2y = 9$$

$$3x + 5y = 20$$

[Click Here for the Video Solution](#)

F.8 A line has a slope of $\frac{-3}{4}$ and goes through the point (0, 8).

What is the equation of this line?

Graph the line below.

[Click here for the Video Solution](#)

