MATH MADNESS #100

1. Which number set is ordered from least to greatest?

   a. 1.75, $\frac{4}{2}$, 0.7, $\frac{3}{2}$, 1.4

   b. $\frac{4}{2}$, 1.75, $\frac{3}{2}$, 1.4, 0.7

   c. 0.7, $\frac{3}{2}$, 1.4, 1.75, $\frac{4}{2}$

   d. 0.7, 1.4, $\frac{3}{2}$, 1.75, $\frac{4}{2}$

2. Eight out of twenty students in a class have brown eyes. Which decimal shows the number of students with brown eyes?

   a. 8.20
   b. 2.80
   c. 0.4
   d. 0.2

3. Lou and Mac bought the same candy bar. Lou ate $\frac{3}{5}$ of his candy bar and Mac ate $\frac{4}{10}$ of his candy bar. Who ate more? How much more?

   a. Lou ate $\frac{1}{5}$ more than Mac

   b. Lou ate $\frac{7}{10}$ more than Mac

   c. Mac ate $\frac{1}{5}$ more than Lou

   d. Mac ate $\frac{7}{10}$ more than Lou

4. Solve:

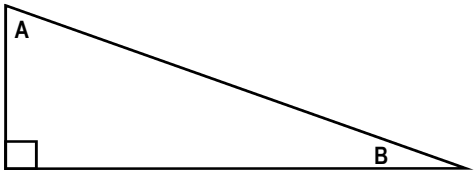
$$\begin{array}{r} 8\frac{1}{4} \\ -\,6\frac{3}{8} \\ \hline \end{array}$$

   a. $1\frac{1}{2}$ c. $2\frac{1}{2}$

   b. $1\frac{7}{8}$ d. $2\frac{7}{8}$

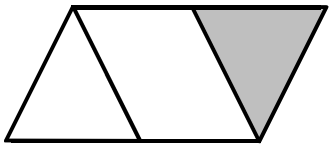
5. Melanie drew this right scalene triangle. Using a protractor, measure ∠A and ∠B. How much greater is the measure of ∠A than ∠B?

   a. 20°
   b. 30°
   c. 50°
   d. 70°



6. Neil will remove the shaded section from this figure. Which best describes the new figure?

   a. triangle
   b. rectangle
   c. trapezoid
   d. rhombus



7. Nancy has one gold chain and one silver chain. She can wear rubies, emeralds, pearls or diamonds on either chain. How many different combinations can she create?

   a. 2
   b. 4
   c. 6
   d. 8

8. Montgomery used a rule to make the number pattern shown.

   2, 6, 18, 54, 162

   If the pattern continues, what should Montgomery do to find the next number?

   a. Multiply 162 by 3
   b. Multiply 162 by 4
   c. Multiply 54 by 3
   d. Multiply 54 by 4

9 & 10 (2 points) Short Answer / Extended Response

Use a protractor to answer the following questions.

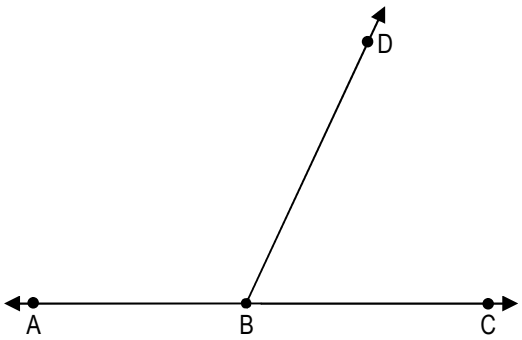
What is the measure of ∠ABD? _____

What type of angle is ∠ ABD? _____

What is the measure of ∠ DBC? _____

What type of angle is ∠ DBC? _____

What is the sum of ∠ABD and ∠DBC? _____



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