

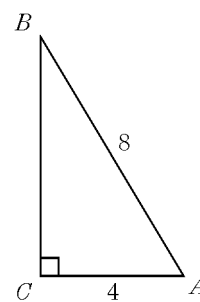
Trig Day 1 HW

Name: \_\_\_\_\_

Date: \_\_\_\_\_

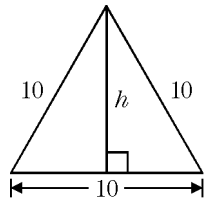
- Express  $\frac{\sqrt{84}}{2\sqrt{3}}$  in simplest radical form.  
A.  $\sqrt{90}$  B.  $9\sqrt{10}$  C.  $3\sqrt{10}$  D.  $3\sqrt{15}$
- Expressed in simplest radical form, the product of  $\sqrt{6} \cdot \sqrt{15}$  is  
A.  $\sqrt{90}$  B.  $9\sqrt{10}$  C.  $3\sqrt{10}$  D.  $3\sqrt{15}$
- The expression  $\frac{6\sqrt{20}}{3\sqrt{5}}$  is equivalent to  
A.  $3\sqrt{15}$  B.  $2\sqrt{15}$  C. 8 D. 4
- What is  $2\sqrt{45}$  expressed in simplest radical form?  
A.  $3\sqrt{5}$  B.  $5\sqrt{5}$  C.  $6\sqrt{5}$  D.  $18\sqrt{5}$
- What is  $\sqrt{32}$  expressed in simplest radical form?  
A.  $16\sqrt{2}$  B.  $4\sqrt{2}$  C.  $4\sqrt{8}$  D.  $2\sqrt{8}$

- If two legs of a right triangle are 9 and 11, the hypotenuse is  
A. 20 B. 2 C. 40 D.  $\sqrt{202}$
- If the length of one leg of a right triangle is 5 and the length of the hypotenuse is 6, then the length of the other leg is  
A.  $\sqrt{61}$  B.  $\sqrt{11}$  C. 3 D. 4
- If the legs of a right triangle have measures of 9 and 12, what is the length of the hypotenuse?  
A. 12 B.  $4\sqrt{3}$   
C.  $4\sqrt{5}$  D. 4



10. In the accompanying diagram, the length of each side of the equilateral triangle is 10. What is the length of altitude  $h$ ?

- A. 5      B.  $5\sqrt{2}$   
C.  $5\sqrt{3}$       D.  $10\sqrt{3}$



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1.  
Answer:  $\sqrt{7}$ , and correct work is shown.

2.  
Answer: B

3.  
Answer: D

4.  
Answer: C

5.  
Answer: B

6.  
Answer: D

7.  
Answer: B

8.  
Answer: 15

9.  
Answer: B

10.  
Answer: C