Name: __

Date: _

Express $\sqrt{75}$ in simplest radical form.

The sum of $\sqrt{18}$ and $\sqrt{72}$ is 2.

A. $\sqrt{90}$

B. $9\sqrt{2}$

C. $3\sqrt{10}$ D. $6\sqrt{3}$

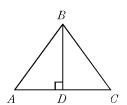
Expressed in simplest radical form, the product of $\sqrt{6} \cdot \sqrt{15}$ is

In the accompanying diagram of isosceles

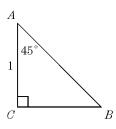
 $\triangle ABC$.

- B. $9\sqrt{10}$ C. $3\sqrt{10}$ D. $3\sqrt{15}$

triangle ABC, $\overline{BA} \cong \overline{BC}$ and altitude \overline{BD} is drawn. If BD = 4 and AD = 3, find the perimeter of



In the accompanying diagram of right triangle ABC, $m \angle C = 90$, $m \angle A = 45$, and AC = 1. Find, in radical form, the length of \overline{AB} .



The hypotenuse of right triangle ABC is 10 and $m \angle A = 60$. What is the measure, to the *nearest tenth*, of the leg opposite $\angle A$?

A. 5.0

B. 5.8

C. 7.1

D. 8.7

In the diagram shown of right triangle BAC, $m \angle A = 90$, $m \angle B = 45$, and AC = 8.

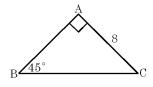
What is the length of BC?

A. $8\sqrt{3}$

B. $8\sqrt{2}$

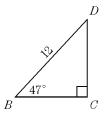
C. $4\sqrt{2}$

D. $16\sqrt{2}$

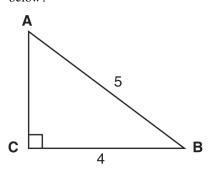


In $\triangle ABC$, $a = \sqrt{2}$, b = 1, and $m \angle A = 90$. Find the measure of $\angle B$.

In right triangle BCD, BD = 12, $m \angle C = 90$, and $m \angle DBC = 47$. Find DC to the nearest tenth.

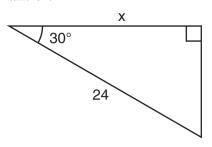


10. Which equation could be used to find the measure of one acute angle in the right triangle shown below?



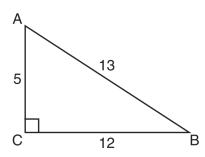
- A. $\sin A = \frac{4}{5}$
- B. $\tan A = \frac{5}{4}$
- C. $\cos B = \frac{5}{4}$
- D. $\tan B = \frac{5}{4}$

11. In the right triangle shown in the diagram below, what is the value of x to the nearest whole number?



- A. 12
- B. 14
- C. 21
- D. 28

12. The diagram below shows right triangle ABC



Which ratio represents the tangent of $\angle ABC$?

- A. $\frac{5}{13}$ B. $\frac{5}{12}$ C. $\frac{12}{13}$ D. $\frac{12}{5}$

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1. Answer:	$5\sqrt{3}$
2. Answer:	В
3. Answer:	В
4. Answer:	16
5. Answer:	$\sqrt{2}$
6. Answer:	D
7. Answer:	В
8. Answer:	45°
9. Answer:	8.8
10. Answer:	A
11. Answer:	C
12. Answer:	В