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Worksheet  
Answers

# Special Right Triangles Worksheet Answers

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**Special Right  
Triangles Worksheet**

# Get Free Special Right Triangles Worksheet

## Answers

### Special Right Triangles

Date \_\_\_\_\_ Period \_\_\_\_\_

Find the missing side lengths. Leave your answers as radicals in simplest form.

1)  $a = 2\sqrt{2}$ ,  $b = 2\sqrt{2}$   
2)  $a = 4$ ,  $b = 2\sqrt{2}$   
3)  $x = 2\sqrt{2}$ ,  $y = 2\sqrt{2}$   
4)  $x = 3\sqrt{2}$ ,  $y = 3\sqrt{2}$   
5)  $x = 6$ ,  $y = 3\sqrt{2}$   
6)  $x = 2\sqrt{3}$ ,  $y = 2\sqrt{3}$   
7)  $x = 8\sqrt{3}$ ,  $y = 8$   
8)  $u = 2\sqrt{3}$ ,  $v = 2$

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**Find the missing  
side lengths. Leave  
your answers as ...**

In a 30-60-90 degrees right triangle, the side opposite the 30-degree angle is. Special Right Triangles. Use the 30-60-90 and 45-45-90 triangle relationships to solve for the missing sides. Use the answers to reveal the name of the team that Abraham M. Saperstein established and sent

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on the road in 1927.

## Answers **Special Right Triangles - Ms. Milton**

Lesson 8-2 Special  
Right Triangles 427 To  
prove Theorem 8-6,  
draw a 30-60-90  
triangle using an  
equilateral triangle.

Proof of Theorem 8-6

For 30-60-90  $\triangle WXY$   
in equilateral  $\triangle WXZ$ , is  
the perpendicular  
bisector of  $\overline{XZ}$ . Thus,  $XY =$   
 $XZ = XW$ , or  $XW = 2XY$

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$= 2s$ . Also,  $XY^2 + YW^2$

$= XW^2$  Use the

Pythagorean Theorem.

$$s^2 + YW^2 = (2s)^2$$

Substitute  $s$  for  $XY$  and  
 $2 XW$ .

## **Special Right Triangles 8-2**

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45 45 90 - Displaying  
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## **Special Right Triangles 45 45 90 Worksheets - Kiddy Math**

This worksheet is a fun way for students to



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practice solving special right triangles.

Students solve problems to reveal the answer to the riddle at the top of the page, which means they receive immediate feedback as to whether or not they have solved correctly. This product is also found AT A DISCOU

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*Page 9/25*

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## Teaching ...

Trigonometry

Prerequisite: Special  
Right Triangles -

Hypotenuse  $2n$

Hypotenuse =  $2 *$

Short Leg Long Leg =

Leg \* Find the value of  
 $x$  and  $y$  in each

triangle. Long Leg 14

Short Leg (20 600 12

00 600 600 600 i2

Sketch the figure that  
is described. Then, find  
the requested  
measure. 10.

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## **Trigonometry**

### **Prerequisite: Special Right Triangles ...**

Day 3 - Special Right  
Triangles (30-60-90)

Warm - up Use the information marked on the figure to find the value of  $x$ . Express all answers in simplest radical form.

1. The perimeter of a square is 24 cm. Find the length of the diagonal of the square.

## **Properties of Right**

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on back of packet  
name per lo i can  
prove the, Determining  
relation to 90.

## **30 60 90 Answer Key Worksheets - Learny Kids**

There are two "special"  
right triangles that will  
continually appear  
throughout your study  
of mathematics: the  
 $30^{\circ}$ - $60^{\circ}$ - $90^{\circ}$  triangle  
and the  $45^{\circ}$ - $45^{\circ}$ - $90^{\circ}$   
triangle. The special

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nature of these triangles is their ability to yield exact answers instead of decimal approximations when dealing with trigonometric functions.

## **Special Right Triangle 45-45-90 - MathBitsNotebook(G eo ...**

Although all right triangles have special features- trigonometric functions and the

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Pythagorean theorem.  
The most frequently  
studied right triangles,  
the special right  
triangles, are the  
30,60,90 Triangles  
followed by the 45 45  
90 triangles.

## **Special Right Triangles Formulas. 30 60 90 and 45 45 90 ...**

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## **Applying Special Right Triangles Worksheets - Kiddy Math**

When the angle of elevation is  $30^\circ$ , we get a  $30^\circ$ - $60^\circ$ - $90^\circ$  special right triangle. The height  $h$  of the ramp is the length of the shorter leg of the  $30^\circ$ - $60^\circ$ - $90^\circ$  triangle. And also, the length of the hypotenuse is 70

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feet. By  $30^\circ-60^\circ-90^\circ$   
Triangle Theorem, we  
have

## **Special Right Triangles Worksheet - onlinemath4all**

A simple equation,  
Pythagorean Theorem  
states that the square  
of the hypotenuse (the  
side opposite to the  
right angle triangle) is  
equal to the sum of the  
other two  
sides. Following is how  
the Pythagorean

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equation is written:

$a^2 + b^2 = c^2$ . In the

aforementioned equation,  $c$  is the length of the hypotenuse while the length of the other two sides of the triangle are represented by  $b$  and  $a$ .

## **48 Pythagorean Theorem Worksheet with Answers [Word + PDF]**

Learn shortcut ratios  
for the side lengths of

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two common right triangles:  $45^\circ-45^\circ-90^\circ$  and  $30^\circ-60^\circ-90^\circ$  triangles. The ratios come straight from the Pythagorean theorem.  
... Special right triangles proof (part 1)  
Special right triangles proof (part 2) Practice: Special right triangles. 30-60-90 triangle example problem. Area of a regular ...

**Special right triangles review**

# Get Free Special Right Triangles Worksheet (article) | Khan Academy

This special right triangles calculator will help you to solve the chosen triangle in a blink of an eye. Select the triangle you need and type the given values - the remaining parameters will be calculated automatically. Special right triangles are right triangles for which simple formulas exist.

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## **Special Right Triangles. Calculator | Formula | Rules**

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applying special right triangles, Find the value of  $x$  and  $y$  in each 5, Classifying triangles date period, Answer keys ...

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30-60-90 triangle

example problem. Area  
of a regular hexagon.

Special right triangles  
review. Next lesson.

Ratios in right  
triangles.

## **Special right triangles (practice) | Khan Academy**

You will then need to  
identify the length of a  
particular side of the  
triangle. Quiz &

Worksheet Goals. The



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topics: Special right  
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