

PYTHAGOREAN THEOREM

8TH GRADE

#2

$$\sqrt{1} = ?$$

#1

$$\sqrt{16} = ?$$

#3

$$\sqrt{0} = ?$$

#4

$$\sqrt{-25} = ?$$

#6

$$- < \sqrt{175} < -$$

#5

$$\sqrt{81} = ?$$

#7

$$- < \sqrt{80} < -$$

#8

$$- < \sqrt{5} < -$$

#10

$$- < \sqrt{70} < -$$

#9

$$- < \sqrt{43} < -$$

#11

The triangle ABC is
right-angled at A.

$$|AB| = 3$$

$$|AC| = 5$$

$$|BC| = ?$$

#12

The triangle ABC is
right-angled at A.

$$|AB| = ? \quad |AC| = 12 \quad |BC| = 13$$

#14

The triangle ABC is
right-angled at A.

$$|AB| = 7 \quad |AC| = 8 \quad |BC| = ?$$

#13

The triangle ABC is
right-angled at A.

$$|AB| = 0,3 \quad |AC| = 0,2 \quad |BC| = ?$$

#15

The triangle ABC is
right-angled at A.

$$|AB| = 9 \quad |AC| = ? \quad |BC| = 12$$

#16

**The triangle ABC is
right-angled at A.**

$$|AB| = ? \quad |AC| = 4 \quad |BC| = 16$$

#18

Is it a right triangle ?

$$|AB| = 5 \quad |AC| = 10 \quad |BC| = 9$$

#17

**The triangle ABC is
right-angled at A.**

$$|AB| = 6 \quad |AC| = ? \quad |BC| = 8,5$$

#19

Is it a right triangle ?

$$|AB| = 3 \quad |AC| = 4 \quad |BC| = 5$$

#20

Is it a right triangle ?

$$|AB| = 2 \quad |AC| = 5 \quad |BC| = 4$$

#22

Is it a right triangle ?

$$|AB| = 13 \quad |AC| = 20 \quad |BC| = 30$$

#21

Is it a right triangle ?

$$|AB| = 5 \quad |AC| = 12 \quad |BC| = 13$$

#23

Is it a right triangle ?

$$|AB| = 10 \quad |AC| = 6 \quad |BC| = 8$$

#24

Is it a right triangle ?

$$|AB| = 7 \quad |AC| = 24 \quad |BC| = 25$$

#26

Calculates the length of the diagonal of a square of side 5.

#25

Is it a right triangle ?

$$|AB| = 6 \quad |AC| = 8 \quad |BC| = 13$$

#27

Calculates the length of the diagonal of a cube of side 5

#28

Calculate the area of an equilateral triangle of side 8.

#30

Knowing that the length of a rectangle is 8 and its diagonal is 10, determines the length of the width.

#29

Determines the length of the hypotenuse of a right triangle with one side of the right angle equal to 6 and its area equal to 12.

TASK CARDS - ANSWERS

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

TASK CARDS - ANSWERS - GRADE 8 - PYTHAGOREAN THEOREM

1 4	2 1	3 0	4 /	5 9	6 $13 < \sqrt{175} < 14$
7 $8 < \sqrt{80} < 9$	8 $2 < \sqrt{5} < 3$	9 $6 < \sqrt{43} < 7$	10 $8 < \sqrt{70} < 9$	11 $ BC = \sqrt{34}$	12 $ AB = 5$
13 $ BC = \sqrt{0,13}$	14 $ BC = \sqrt{113}$	15 $ AC = \sqrt{63}$	16 $ AB = \sqrt{240}$	17 $ AC = \sqrt{36,25}$	18 NO
19 YES	20 NO	21 YES	22 NO	23 YES	24 YES
25 NO	26 $\sqrt{50}$	27 $\sqrt{75}$	28 $\sqrt{48}$	29 $\sqrt{52}$	30 6