

# Homework # 9

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

Name \_\_\_\_\_

Color by Classifying

0.25		1.76	$\frac{1}{5}$	$\sqrt{-36}$	$\frac{5}{8}$	2.75			
	$2\frac{5}{6}$	0.125	$\frac{8}{0}$	$\sqrt{17}$	$\sqrt{-4}$	$\frac{9}{11}$	0.45		$1\frac{1}{87}$
$0.\bar{3}$	5.9	$\sqrt{-83}$	.23924...	$\sqrt{6}$	$\sqrt{56}$	$\frac{15}{0}$	$\frac{1}{3}$	0. $\bar{6}$	$4.\bar{13}$
$\frac{3}{4}$	$\frac{25}{0}$	$\sqrt{84}$	$8\frac{5}{12}$	.78321...	$7.\bar{81}$	$\sqrt{21}$	$\sqrt{-49}$	$\sqrt{-23}$	$3\frac{3}{0}$
$0.\bar{9}$	$5\frac{3}{7}$	.3295...	.9857...	$\sqrt{41}$	$\sqrt{37}$	.4837...	$\sqrt{26}$	$\sqrt{50}$	$\sqrt{67}$
$\sqrt{9}$	28	$\sqrt{145}$	$9.\bar{5}$	$\sqrt{5}$	127	$\sqrt{3}$	$\frac{5}{0}$	$\sqrt{-16}$	$\sqrt{-25}$
$\frac{12}{3}$	-6	.93823...	$\sqrt{15}$	$\sqrt{101}$	$\sqrt{16}$	.3825...	$\sqrt{-100}$	$\frac{9}{0}$	$1\frac{1}{0}$

8<sup>th</sup> Grade Unit 2

BLUE – Real, Rational Number  
GREEN – Real, Rational Number, Integer

BLACK – Number that is Not Real  
YELLOW – Real, Irrational Number

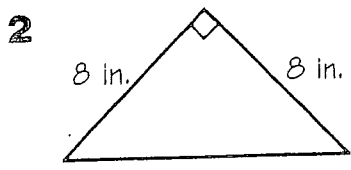
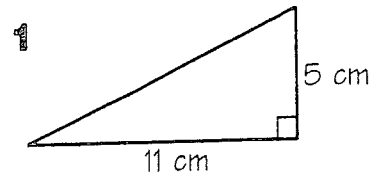
<p><b>Green</b> Real, Rational Numbers, Integers</p>	<p><b>Blue</b> Real, Rational Numbers</p>	<p><b>Yellow</b> Real, Irrational Numbers</p>	<p><b>Black</b> Numbers that Are Not Real</p>
<p>Any positive or negative whole number that can be written as a fraction.</p> <p>Examples:</p>	<p>Any number that can be written as a fraction on a number line. It must terminate or end.</p> <p>Examples:</p>	<p>Numbers that cannot be written as fractions because they do not terminate or repeat. Square roots that are not perfect squares.</p> <p>Examples:</p>	<p>Negative square roots and any whole number over zero.</p> <p>Examples:</p>

# BECAUSE

1	2	3	4	5	6	7	8
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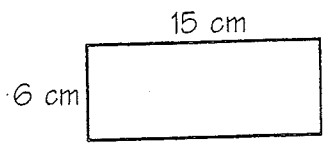
Do each exercise and find your answer in the answer column (most of the answers are rounded). Write the word next to the answer in the box containing the problem number.

**A.** Find the length of the hypotenuse of each right triangle.



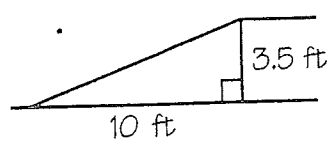
**B.** Solve.

3 A rectangle is 6 cm wide and 15 cm long. Find the length of its diagonal.



4 A computer monitor is labeled according to the diagonal measure of its screen. If the screen is 12 in. wide and 9 in. high, what is the length of its diagonal?

5 An inclined ramp rises 3.5 ft over a horizontal distance of 10 ft. How long is the ramp?



6 Ken lives 4 mi north of school. Barbie lives 4 mi west of school. What is the straight-line distance between their houses?

7 Two trains left Metropolis at the same time. One traveled south at 60 mph. The other traveled east at 50 mph. How far apart were the trains at the end of 3 hours?

8 A newly-planted tree needs to be staked with three wires. Each wire is attached to the trunk 3 ft above the ground, then anchored to the ground 4 ft from the base of the tree. How much wire is needed for 8 trees?

- 15.7 cm • SOME
- 10.6 ft • SERVED
- 239 mi • STEAK
- 11.3 in. • WANTED
- 5.4 mi • ON
- 120 ft • FLIES
- 11.6 in. • TRIED
- 12.1 cm • HE
- 5.7 mi • WITH
- 10.9 ft • HOT
- 15 in. • MEALS
- 108 ft • BUGS
- 234 mi • FRENCH
- 14.2 in. • SWAMP
- 16.2 cm • HIS

