

Name: _____

Date: _____

Math 9 Section 1.1 Assignment

1. Indicate which of the following are perfect square: (Write YES or NO) If it is a perfect square, write it as the square of an integer

a) 81	b) 225	c) 71	d) 169
e) 144	f) 289	g) 1000	h) 0
i) 25	J) 125	K) 100	L) 131
m) 121	n) 10,000	o) 49	p) 256

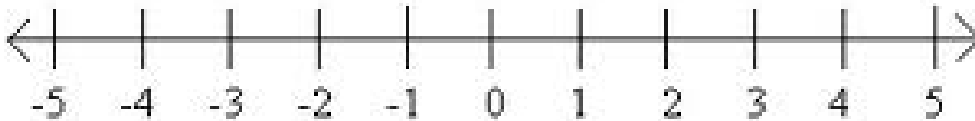
2. Simplify each of the following square roots: (NO Calculators)

a) $\sqrt{\frac{4}{81}}$	b) $\sqrt{\frac{1}{64}}$	c) $\sqrt{\frac{100}{289}}$	d) $\sqrt{\frac{25}{121}}$
e) $\sqrt{\frac{49}{100}}$	f) $\sqrt{\frac{169}{256}}$	g) $\sqrt{\frac{361}{1000}}$	h) $\sqrt{2.25}$
i) $\sqrt{0.64}$	J) $\sqrt{0.04}$	K) $\sqrt{\frac{128}{242}}$	L) $\sqrt{\frac{12}{243}}$
m) $\sqrt{\frac{50}{98}}$	n) $\sqrt{\frac{841}{49}}$	o) $\sqrt{\frac{147}{300}}$	p) $\sqrt{\frac{961}{144}}$
q) $\sqrt{?} = 0.08$	r) $\sqrt{?} = 1.2$	s) $\sqrt{\frac{?}{100}} = 2.5$	t) $\sqrt{\frac{27}{?}} = \frac{3}{5}$

3. If the area of a square is $1,156m^2$, what is the length of its side?

4. Place each of the following square roots on the number line:

A) $\sqrt{20.25}$	B) $-\sqrt{12.96}$	C) $\sqrt{\frac{576}{100}}$	D) $\sqrt{0.09}$	E) $\sqrt{10.24}$
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5. Find the side length of each of the following squares:

<p>a)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> $A = \frac{81}{25}m^2$ </div>	<p>b)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> $A = \frac{144}{49}m^2$ </div>	<p>c)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> $A = 72.25m^2$ </div>
<p>d)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> $A = 0.0009cm^2$ </div>	<p>e)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> $A = \frac{2500}{49}mm^2$ </div>	<p>f)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> $A = \frac{450}{578}km^2$ </div>

6. A piece of paper is 10cm by 10cm. How many different squares with side lengths that are integers can you cut out from this piece of paper? (ie: all squares must either 1cmx1cm, 2cmx2cm, or 3cmx3cmetc)