

Worksheet 3.3 Extra Practice

1. Fill in the blanks.

The first step in estimating the square root of a number that is not a perfect square is to think of the _____
less than and greater than the number.

2. Complete the table. The first row is done for you.

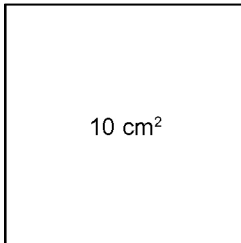
Number	Perfect Square Less Than the Number & its Factors	Perfect Square Greater Than the Number & its Factors	Perfect Square Number Is Closer To	Estimate the Square Root	Check in square root Calculator (nearest thousandth)
33	25 = 5x5	36 = 6x6	36	$\sqrt{33}$	5.745
11					
47					
6					
70					
116					

3. Complete the table.

	Perfect Square Less Than the Number	Perfect Square Greater Than the Number	Perfect Square Number Is Closer To	Estimate	Check (nearest thousandth)
$\sqrt{14}$					
$\sqrt{38}$					
$\sqrt{140}$					
$\sqrt{94}$					

4. Identify all of the possible whole numbers with a square root greater than 3 and less than 4.

5. The square has an area of 10 cm^2 .



- a) Use perfect squares to estimate the side length of the square, to one decimal place. Show your work.

- b) Use a ruler to measure the side length of the square, to the nearest tenth of a centimetre. _____