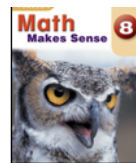




Warm Up Grade 8



1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225
 $1^2, 2^2, 3^2$ 11^2 $13^2, 14^2, 15^2$

1) Find the square root of each, (No calculators)

a) 121
 $\sqrt{121} = 11$

b) 31
 $\sqrt{31}$
 $\sqrt{25} = 5$ $\sqrt{36} = 6$
 $2.5 \cdot 7 = 17.5$

2) Prove that 94 is not perfect using factors.

1×94
 2×47

94 → has 4 factors, even # of factor
 so it is NOT Perfect

3) Find the following without using a calculator (But show which symbol goes with each)

a) Square 16
 $16^2 = 256$

b) Square root of 16
 $\sqrt{16} = 4$

4) Estimate each off the following (Show work)

a) $\sqrt{24}$
 $\sqrt{16} = 4$ $\sqrt{25} = 5$
 ≈ 4.7

b) $\sqrt{125}$
 $\sqrt{121} = 11$ $\sqrt{144} = 12$
 ≈ 11.2

5) Put the following number in order from least to greatest (SHOW WORK)

10, $\sqrt{28}$, $\sqrt{15}$, $\sqrt{25}$, 3.4

$\sqrt{25} = 5$ $\sqrt{36} = 6$ $\sqrt{16} = 4$ $\sqrt{9} = 3$
 ≈ 5.2 ≈ 3.9

3.4, $\sqrt{15}$, $\sqrt{25}$, $\sqrt{28}$, 10