SATISH CHANDRA MEMORIAL SCHOOL

Class: VIII Ch: 6 (Squares & Square Roots)

Worksheet -6

Sample Example:

Evaluate : $\sqrt{2}$

$\overline{2}.\overline{00}\ \overline{00}\ \overline{00}$ (1.414

1 | - 1

100

24 | - 96

400

281 | - 281

11900

2824 | - 11296

604

$\sqrt{2}$ = 1.414 = 1041 (correct upto 2 places of decimal)

1. Evaluate $\sqrt{3}$ correct up to two places of decimal.

2. Evaluate $\sqrt{5}$ correct up to two places of decimal.

3. Evaluate: $\frac{\sqrt{32}+\sqrt{48}}{\sqrt{8}+\sqrt{12}}$

4. Evaluate: $\sqrt{3018+\sqrt{36+\sqrt{169}}}$

5. Evaluate: $\sqrt{95+\sqrt{18+\sqrt{49}}}$

6. Observe the pattern and find the missing numbers
   $(1)^2 = 1$
   $(11)^2 = 121$
   $(111)^2 = 12321$
   $(1111)^2 = 1234321$
   $(11111)^2 = 123454321$
   $(111111)^2 =$ _____
   $(1111111)^2 =$ _____

7. Observe the pattern and find the missing numbers
   $1^2 + 2^2 + 2^2 = 3^2$
   $2^2 + 3^2 + 6 = 7^2$
   $3^2 + 4^2 + 12^2 = 13^2$
   $4^2 + 5^2 +$ ____ = ____
   $5^2 + 6^2 +$ ____ = ____
   $6^2 +$ ____ + ____ = ____

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