Name Schlansky

Mr. Schlansky

Date ______Algebra I

Algebra I Practice for Geometry

Reducing Radicals

- Separate into two radicals (perfect squares and non perfect squares). Find the largest perfect square that divides in
- Take the square root of the perfect square. Bring the non-perfect square down

1. $\sqrt{45}$ 1. $\sqrt{45}$ 1. $\sqrt{95}$

2. √50 PS NPS SJ2 3. \(\sqrt{162}\)
\(\sqrt{81}\)
\(\sqrt{3}\)
\(\sqrt{91}\)

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4. √32 PSX NRS 16 52 452 5. V48 P8 NPS J16 J3 4J3 $6.\sqrt{75}$ $\sqrt{25}$ $\sqrt{3}$ $\sqrt{3}$

7. $\sqrt{48}$ NPS 116 J 3 453 8.√200 PS NP) 10√2 10√2

 $9.\sqrt{98}$ 109 109 109 109

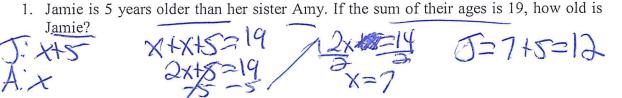
 $\begin{array}{c}
10.\sqrt{125} & \text{NPS} \\
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23 & 3
\end{array}$

11. \(\sqrt{147}\)
\(\sqrt{147}\)
\(\sqrt{149}\)
\(\sqrt{3}\)
\(\sqrt{3}\)

12. \(\sqrt{192}\)
\(\sqrt{54}\)
\(\sqrt{3}\)

Solving Quadratic Equations 4) Bring everything to one side 5 Factor Set each factor equal to zero 3. $a^2 - 8a = 20$

- In Terms of x 3) Call the last thing x
 - Express everything else in terms of x



2. Jack's age is 6 less than double Jill's age. If the sum of their ages is 30, how old is Jill?

Jack's age is 6 less than double Jill's age. If the sum of their ages is 30, now
$$3x + 6 + 2x - 6 + 2$$

3. Ben has four more than twice as many CDs as Jake. If they have a total of 31 CDs,

how many CDs does Jake have?

$$2x+4x=31$$
 $3x=27$
 $3x+4=31$
 $3x=27$

4. Three times as many robins as cardinals visited a bird feeder. If a total of 20 robins and

