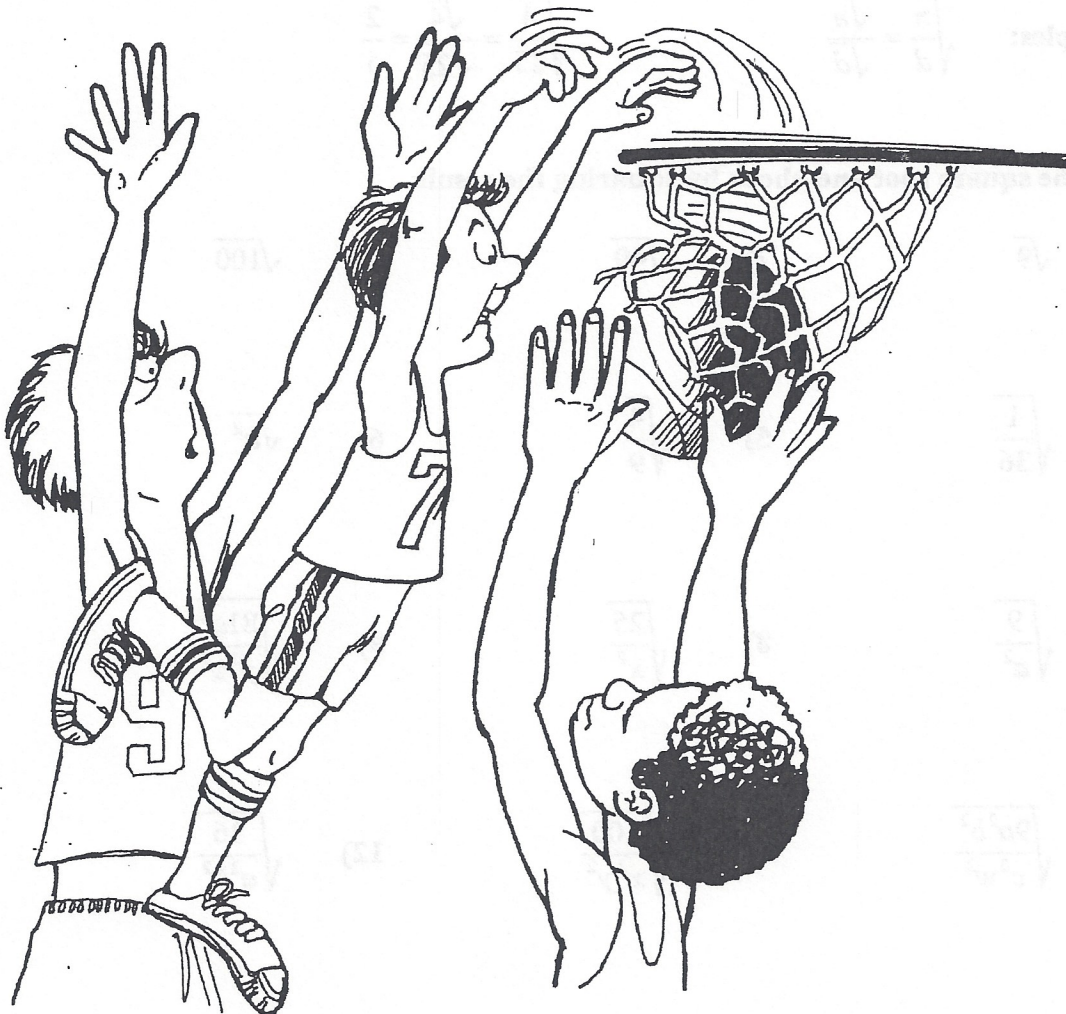




BASKETBALL FOR SQUARES

The math club president was watching a basketball practice at her school. The players were wearing jerseys numbered 1-18. When the team began a pairs drill, the president

noticed that the sum of the numbers worn by each pair of athletes was a perfect square. What were the numbers worn by the two players in each pair?



_____ + _____ = _____	_____ + _____ = _____	_____ + _____ = _____
_____ + _____ = _____	_____ + _____ = _____	_____ + _____ = _____
_____ + _____ = _____	_____ + _____ = _____	_____ + _____ = _____

Name _____

Date _____

Period _____

Pre-Algebra Square Roots of Fractions

To find the square root of a fraction, find the square root of the numerator, and the denominator and then divide.

Examples: $\sqrt{\frac{n}{d}} = \frac{\sqrt{n}}{\sqrt{d}}$ $\sqrt{\frac{4}{25}} = \frac{\sqrt{4}}{\sqrt{25}} = \frac{2}{5}$

Find the square root and check by squaring the result.

1) $\sqrt{9}$

2) $\sqrt{49}$

3) $\sqrt{100}$

4) $\sqrt{\frac{1}{36}}$

5) $\sqrt{\frac{4}{9}}$

6) $\sqrt{a^2}$

7) $\sqrt{\frac{9}{a^2}}$

8) $\sqrt{\frac{25}{x^2}}$

9) $\sqrt{\frac{81a^2}{y^2z^2}}$

10) $\sqrt{\frac{9a^2b^2}{c^2w^2}}$

11) $\sqrt{\frac{100}{x^2y^2}}$

12) $\sqrt{\frac{36}{a^2b^2}}$