Are you ready for Prealgebra ?

Note: Attempt all the problems without a calculator.

1. Arithmetic with whole numbers.

(1) 13×12 (2) 114×227 (3) $2024 \times 5 \times 0$

(3) $984 \div 8$ (4) $624 \div 12$ (5) $63755 \div 311$

2. Arithmetic and simplification with fractions.

(1) $\frac{4}{23} + \frac{7}{23}$ (2) $\frac{7}{8} - \frac{2}{8}$ (3) $12 \times \frac{1}{3}$

(4) $\frac{2}{8} = \frac{?}{4}$ (5) $\frac{4}{12} = \frac{1}{?}$ (6) $\frac{11}{3} = 3\frac{?}{3}$

3. Arithmetic with decimal numbers.

(1) $3.21 + 4.899$ (2) $11.84 - 2.96$ (3) $5.01 - 4.985$

(4) 7.8×0.3 (5) 2.4×1.1 (6) $3.48 \div 4$

3. Comparison of numbers (fill each circle with $=$, $>$ or $<$)

(1) $634 \bigcirc 643$ (2) $3 \bigcirc -3$ (3) $-4 \bigcirc -2$

(4) $5 \bigcirc 5.000$ (5) $5.42 \bigcirc 54.2$ (6) $3.89 \bigcirc 3.91$

(7) $\frac{2}{5} \bigcirc \frac{3}{5}$ (8) $\frac{5}{7} \bigcirc \frac{5}{9}$ (9) $\frac{6}{9} \bigcirc \frac{2}{3}$

4. Word problems.

(1) Tim has 3 red bags of candies and 4 green bags of candies. Each red bags has 12 candies, and each green bag has 10 candies. How many candies does Tim have in total.

(2) Tim has a bag of 16 candies. After he eats $\frac{1}{4}$ of candies, how many candies are left.

(3) Vic's age is twice Tim's age. Vic is 9 years older than Tim. How old is Vic.

(4) One inch is about 2.54 centimeters. One foot is 12 inches. How many centimeters is one foot?

(5) Tim had some candies. He ate $\frac{1}{2}$ of his candies in the morning. In the afternoon, he ate $\frac{1}{2}$ of the candies left from the morning. After he ate 2 more candies in the evening, he had no candies any more. How many candies did Tim eat altogether in the day?