



Problem of the Week

Problem B

Maybe Equals, Maybe Not

(a) For each of the following statements, fill in the \bigcirc with $=$, $<$, or $>$ to make the statement true.

(i) $0.5 + 0.24 \bigcirc \frac{3}{4}$

(v) $25 \times 40 + 321 \bigcirc 153 \times 10$

(ii) $1.10 + \frac{1}{4} \bigcirc \frac{35}{100}$

(vi) $2 \times 24 \div 6 \bigcirc \frac{36}{6}$

(iii) $2 \times 2 \times 5 \bigcirc \frac{100}{5}$

(vii) $35 \times 2 \bigcirc 5 \times 14$

(iv) $100 - 24 + 65 \bigcirc 14 \times 10$

(viii) $2y + 6 \bigcirc y + 3 + y + 3$

(b) In the following statement, determine values of y that make the statement true when the \bigcirc is replaced with $=$, $<$, and $>$.

$$4y + 12 \bigcirc 4 + 2y + 4 + 3y + 4$$