



Name:

6th Grade

Distribute.

① $3(4x - 6)$

② $5(6x + 10y)$

③ $3m(4n + 1)$

④ $2p(2p - 2)$

⑤ $6x(y + 2z)$

⑥ $3w(1 - 2a)$

⑦ $4(2x + 7)$

⑧ $3L(M - 2N)$

Tell which properties make the expressions equal to each other.

①

$$2(x+4) = 8+2x$$

②

$$\frac{2}{3} \cdot \frac{3}{2} \cdot 1 = 1$$

③

$$(2 \cdot 4) \cdot 3 + 0 = 2 \cdot (4 \cdot 3)$$

④

$$3+6+0 = 6+3$$

Find the missing information.

①

Corn : peas \rightarrow There are 24 corns.

3 : 7

How many total vegetables?

②

red stars : blue stars \rightarrow There are 63

4 : 5

total stars. How many blue stars?

③

hearts : moons \rightarrow

8 : 5

There are 39 total shapes. How many hearts?

④

rings : total rings

6 : 11

\downarrow
bracelets

\rightarrow There are 44 total rings & bracelets.

How many bracelets?

Rank the mixtures.

A) $\frac{\text{orange}}{\text{soda}} = \frac{2}{5}$

B) $\frac{1}{3}$ of the mixture is soda



D) orange: total
2 : 5

E) $\frac{1}{2}$ of the mixture is orange

least
orangey

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most
orangey