Name
Date
Arithmetic

Class 33: A Few More Things

Perform the following operations.

① 6×10	② 1000×7
③ 2×100	④ $1{,}000{,}000 \times 3$
⑤ 100×800	⑥ $40 \times 10{,}000$
⑦ 70×100	⑧ 1000×600
⑨ $300 \times 4{,}000$	⑩ 50×700
⑪ $800 \times 50{,}000$	⑫ 900×200
⑬ $400 \times 6{,}000$	⑭ $700 \times 90{,}000$
⑮ 5.68×100	⑯ $75.4 \times 100{,}000$
⑰ 0.3215×10	⑱ $873.40011 \times 1{,}000$
⑲ 0.001×100	⑳ $573.1981 \div 100$
㉑ $3{,}678.4 \div 1{,}000$	㉒ $877.053 \div 10$
㉓ $36.4 \div 10{,}000$	㉔ $1.04 \div 100{,}000$
㉕ $5{,}000 \div 100$	㉖ $7{,}000 \div 1000$
㉗ $8{,}000{,}000 \div 10{,}000$	㉘ $6{,}000 \div 100{,}000{,}000$

More Rules/Properties

I) The Commutative Rule of Addition: $A+B=B+A$

II) The Commutative Rule of Multiplication: $A \times B = B \times A$

III) The Associative Rule of Addition: $(A+B)+C = A+(B+C)$

IV) The Associative Rule of Multiplication: $(A \times B) \times C = A \times (B \times C)$

V) The Identity Rule of Addition: $A+0=A$

VI) The Identity Rule of Multiplication: $A \times 1 = A$

VII) The Zero Rule of Multiplication: $A \times 0 = 0$

VIII) The Inverse Rule of Multiplication: $A \times \frac{1}{A} = 1$

Name the rule demonstrated below.

㉙ $3+0=3$	㉚ $7+1=1+7$	㉛ $4 \times 1 = 4$
㉜ $(5 \times 4) \times 2 = 5 \times (4 \times 2)$	㉝ $6+2=2+6$	㉞ $0 = 100 \times 0$
㉟ $4 \times \frac{1}{4} = 1$	㊱ $7+(8+106)=(7+8)+106$	㊲ $15 \times 3 = 3 \times 15$
㊳ $9 = 9 \times 1$	㊴ $8+3=3+8$	㊵ $(6 \times 3) \times 2 = 6 \times (3 \times 2)$

Divide the numbers below. Write the quotients as mixed numbers.

(41) $7 \div 4$ (42) $9 \div 2$ (43) $8 \div 5$

(44) $7 \div 3$ (45) $12 \div 5$ (46) $78 \div 9$

(47) $59 \div 8$ (48) $76 \div 9$ (49) $52 \div 6$

Convert the rates below to unit rates.

(50) 51 miles in 9 minutes. (51) 26 gallons for 6 yards.

(52) $144.2 \div 5$ (53) 84 dollars for every 9 minutes.

(54) 37 hours for every 8 machines (55) 117 servings for every 7 pounds of dough.

(56) 830 ounces of water for every 3 grams of sugar.

(57) 2,133 cups of flour for every 6 teaspoons of vinegar.

(58) 7 kilograms for every 8 cubic feet (59) 4 pounds of meal for 9 dogs.

(60) 11 miles for every 15 gallons of gas. (61) 8 pieces of chocolate for 13 people.