

Inverse Property of Multiplication

$$a \cdot \frac{1}{a} = 1, a \neq 0$$

Division Rule

$$a \div b = a \cdot \frac{1}{b}$$

$$15 \div 3 = 15 \cdot \frac{1}{3}$$

(5) (5)

Dividing Real #'s

Same Sign

quotient is positive

$$(+8) \div (+2) = (+4)$$

$$(-16) \div (-8) = (+2)$$

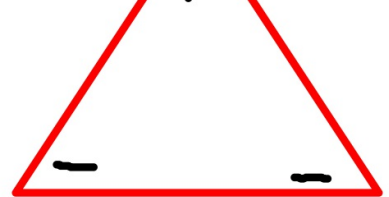
Different Signs

quotient is negative

$$(-12) \div (+4) = (-3)$$

$$(+24) \div (-8) = (-3)$$

Multiplication
division
+



Simplify

$$\frac{36x - 24}{6}$$

$$6x - 4$$

$$(36x - 24) \div 6$$

Division Rule

$$(36x - 24) \cdot \frac{1}{6}$$

distribute

$$\frac{-6y + 18}{3}$$

$$(-6y + 18) \div 3$$

$$(-6y + 18) \cdot \frac{1}{3}$$

$$-2y + 6$$

Justify

write as \div problem
division rule
distribute $\frac{1}{3}$

2.6)

#2, 3, 6, 8, 9, 11, 12, 17, 21, 24, 25,
32, 33, 38, 40, 44, 47, 52, 53