Find the product

1. +4 x +7 = 28
2. +3 ● -10 = -30
3. -8 x -2 = 16
4. (-4)(+9) = -36

Find the quotient

1. +9 ÷ -3 = -3
2. -10 ÷ -5 = 2
3. 2
4. -8

Sign Rule for multiplication

* When you multiply two integers with the same sign, the answer is positive

+ x + = + - x - = +

Ex -2 x -3 = +6

* When you multiply two integers with the different signs, the answer is negative

+ x - = - - x + = -

Ex -2 x 3 = -6

Sign Rule for Division

* When you dividing two integers with the same sign, the answer is positive

+ ÷ + = + - ÷ - = +

Ex -6 ÷ -2 = +3

* When you dividing two integers with the different signs, the answer is negative

+ ÷ - = - - ÷ + = -

Ex -6 ÷ 2 = -3

1. Rohan can climb stairs at a rate of 2 steps per second. If it takes him 18 seconds to climb up a staircase. how many steps did he go up?

18 seconds 18 seconds x

Rohan went up 36 stairs in 18 seconds.

1. Ken pays $35/month to charity. How much does he deduct from his account in 1 year?

- - x

= -

Ken deducts $420 annually (yearly)

1. It’s very cold in space, and R2D2 has fallen out of his X-wing. In 20 minutes, his temperature will drop by 40 degrees. What is his temperature change per minute?

-40° ÷ 20 minutes =

= -2°/min

R2D2 temperature dropped 2 degree per minute.

1. Can you predict POSITIVE or NEGATIVE

(-) x (-) = +

(-) x (+) = -

(-) x (-) x (-) = -

(-) x (-) x (-) x (-) = +

Even # of negative signs 🡪 positive

Odd # of negative signs 🡪 negative

(-) x (-) x (-) x (-) x (-) x (-) x (-) x (-) = +

(-) x (-) x (-) x (-) x (-) x (-) x (-) = -

When good things, happen to good people, that’s good!

+ • + = +

When bad things, happen to bad people, that’s good!

– • – = +

When good things, happen to bad people, that’s bad!

+ • – = –

When bad things, happen to good people, that’s bad!

– • + = –