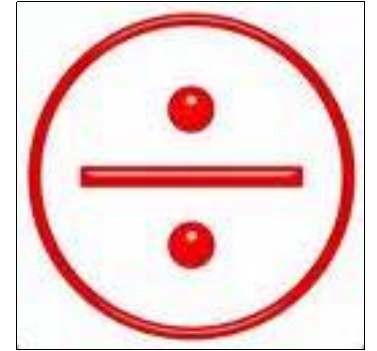


Division

SOL 4.4 a,c



Vocabulary:

Division: operation of making equal parts or equal shares

Equivalent: the same

Identity property: when the number 1 is multiplied with another number, that number stays the same

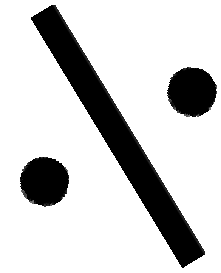
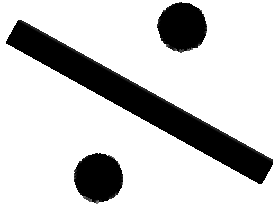
Number sentence: an equation using numbers and operation symbols

Quotient: answer to a division problem

Related facts: three numbers that are reordered in 4 number sentences

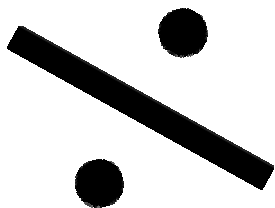
Estimate: a number close to an exact solution; tells about how much or how

Division Parts

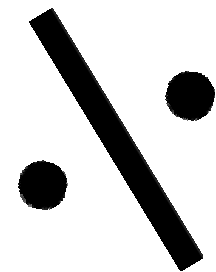


Dividend ÷ Divisor = Quotient

$$15 \div 3 = 5$$



| | | |
|-------------|------------|----|
| | quotient → | 5 |
| divisor → | 3 | 16 |
| dividend ↗ | | 15 |
| remainder → | | 1 |



ESTIMATE

Two ways to estimate:

- Divide then round
- Round then divide

Tip: When rounding first, round to the largest

Example 1: $\begin{array}{r} 363 \\ \cdot \\ 3 \end{array}$

3

— — — — — 

121

120

Example 2: $\begin{array}{r} 363 \\ \cdot \\ 3 \end{array}$

3



360

3

— — — — —

120

STEPS TO DIVIDE



How to Divide!



Does

÷ (divide)

McDonald's

x (multiply)

Sell

- (subtract)

Cheese

(check)

Burgers

↓ (bring down)

Raw?

(repeat or remainder) 

Remember...



Divide

Dad



Multiply

Mother



Subtract

Sister



Compare

Cat



Bring Down

Brother



Repeat or Remainder

Rover



STEPS TO DIVIDE

3 digit dividend

1 digit divisor

$$\begin{array}{r} 1 \\ 3 \overline{)462} \end{array}$$

Step 1

$$\begin{array}{r} 1 \\ 3 \overline{)462} \\ -3 \\ \hline 1 \end{array}$$

Step 2

$$\begin{array}{r} 1 \\ 3 \overline{)462} \\ -3 \\ \hline 162 \end{array}$$

Step 3

$$\begin{array}{r} 15 \\ 3 \overline{)462} \\ -3 \\ \hline 162 \end{array}$$

Step 4

$$\begin{array}{r} 15 \\ 3 \overline{)462} \\ -3 \\ \hline 162 \\ -15 \\ \hline 1 \end{array}$$

Step 5

$$\begin{array}{r} 15 \\ 3 \overline{)462} \\ -3 \\ \hline 162 \\ -15 \\ \hline 12 \end{array}$$

Step 6

$$\begin{array}{r} 154 \\ 3 \overline{)462} \\ -3 \\ \hline 162 \\ -15 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$

Step 7