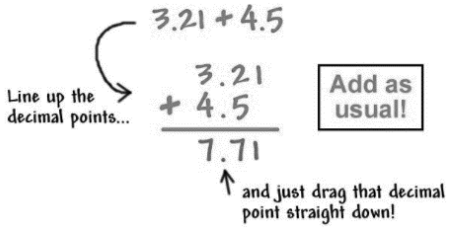
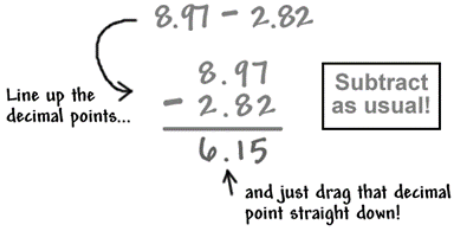
Name: Must show your WORK Due:_____

1. Whole Number and Decimal Operation

Add decimal numbers



Subtract decimal numbers



Multiply decimal

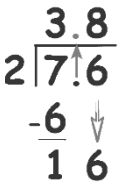
Multiply normally, ignoring the decimal points.

Then put the decimal point in the answer - it will have as many decimal places as the two original numbers combined.

Divide Decimal

Divide as usual

Put decimal point directly above decimal point in the dividend.



2. Decompose Fractions

IF the numerator and denominator:

a) Both are even, divide by 2

b) Both end with 0 or 5, divide by 5

c) If not, then try 3 or 7

Keep dividing by 1 of the 4 numbers until the fraction is in lowest terms.

a) $\frac{18}{24} \div \boxed{2} \frac{9}{12} \div \boxed{3} \frac{3}{4}$

b) $\frac{45}{50} \div \boxed{5} \frac{9}{10}$

c) $\frac{27}{45} \div \boxed{3} \frac{9}{15} \div \boxed{3} \frac{3}{5}$

3. Fractions Operation

Add Fractions

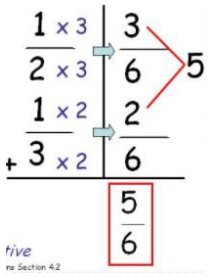
1 Common Denominator?

2 Add numerators

3 Improper? Change to mix number

4 Reduce?

Add the whole number part of the answer to the mix number.



Subtract Fractions

1 Common Denominator?

2 Can you take away? If no, change 1 whole number to a fraction $1=\frac{2}{2}$

3 Subtract numerators

4 Reduce?

Subtract whole number

$6\frac{3}{4} - 4\frac{1}{2}$

$6\frac{3}{4}$ $\quad$ $6\frac{3}{4}$

$-4\frac{1}{2} \times \frac{2}{2}$ $\quad$ $4\frac{2}{4}$

$2\frac{1}{4}$

$5\frac{1}{2} - 2\frac{3}{5}$

$5\frac{1}{2} \times \frac{5}{5} = \frac{5}{10} + \frac{10}{10} = \frac{15}{10}$

$-2\frac{3}{5} \times \frac{2}{2} = \frac{6}{10}$ $\quad$ $\frac{6}{10}$

2 $\quad$ $\frac{9}{10}$

$2\frac{9}{10}$

Divide Fractions

Strategy: multiply by reciprocal

1. change division sign to multiplication sign
2. invert (flip) the 2nd number
3. multiply numerator by numerator and denominator by denominator

$\frac{1}{8} \div 2$ (Means: $\frac{2}{1}$)

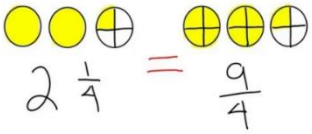
$\frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$

$4 \div \frac{1}{7}$ (Means: $\frac{4}{1}$)

$\frac{4}{1} \times \frac{7}{1} = \frac{28}{1} = 28$

Name: Must show your WORK Due:_____

4. Mix Numbers/Improper



Mix to Improper

Then add.

$4\frac{1}{3} = \frac{13}{3}$

Multiply.

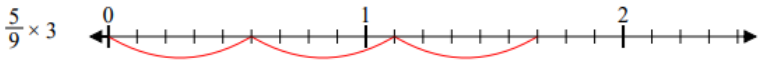
Improper to Mix

$\frac{15}{7} \rightarrow 7\overline{)15}$

$7\overline{)15} \rightarrow 7\overline{)\begin{array}{r}2\\15\\-14\\\hline 1\end{array}}$

Answer = $2\frac{1}{7}$

5. Fraction operation with models



6. Convert Fraction/Decimal

Fraction to decimal

divide numerator by denominator

or

change denominator to 10, 100, 1000 and make equivalent fraction

$\frac{3}{5} = \frac{6}{10} = 0.6$ $\frac{5}{20} = \frac{25}{100} = 0.25$

Decimal to Fractions

Put number over it place value and simplify

$.15 = \frac{15}{100} = \frac{3}{20}$ (÷5 ÷5)

The last digit is in the hundredths place.

7. Order of Operations

(PEMDAS)

Do the operation(s) in **P**arentheses first.

Do all **E**xponents

Multiply or **D**ivide (order from left to right)

Add or **S**ubtract (order from left to right)

8. Table

Write an equation ------→ jamar – 9 = mandy

Or

X – 9 = y

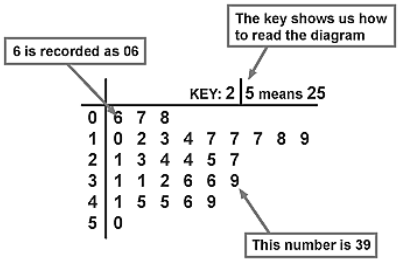
Jamar's Age (years)	Mandy's Age (years)
13	4
59	50
62	53

9. Graphs

Dot Plot

Example: 6 people read 1 book last summer

Stem and Leaf



Frequency Table

score	tally	frequency (f)
1	||||	4
2	𝍸 ||||	9
3	𝍸 |	6
4	𝍸 ||	7
5	|||	3
6	||	2

10. Measurement

Use formula chart