1.0

ADDING & SUBTRACTING POSTIVE AND NEGATIVE NUMBERS

DO NOW

Simplify

1) $0.43 + 1.27$

DO NOW

Simplify

2) $4\frac{5}{6} + 2\frac{2}{3}$

Adding Integers without a number line

-3 + -5 =

-1 + -3 =

-6 + -2 =

-9+ -14 =

-12 + -8 =

SAME SIGN

- Ignore the signs
- Add numbers
- Put sign back

Adding Integers without a number line

-3 + 5 =

-1 + 6 =

-5 + 9=

5 + -7 =

8 + -6 =

14 + -18 =

DIFFERENT SIGNS

- Ignore the signs
- Subtract
- Put sign back of number that "looks" the biggest

Example 1

Find the sum of the following:

$a)\ -5.3+(-4.9)$

$b)\ -12.2+19.3$

Practice

Find the sum of the following:

1) $-12.6+7.3$

2) $-8.4+(-0.7)$

Practice

Find the sum of the following:

3) $-9+(-3.4)$

4) $0.25+(-5.9)$

Practice

Find the sum of the following:

5) $-8+(-4.6)+19.5$

Examples

SAME SIGN
- Ignore the signs
- Add numbers
- Put sign back

Find the sum of the following:

$$a)\ -3\frac{1}{2}+\left(-5\frac{2}{3}\right)$$

Examples

Find the sum of the following:

$$b)\ \ 3\frac{2}{3}+\left(-5\frac{3}{8}\right)$$

DIFFERENT SIGNS

- Ignore the signs
- Subtract
- Put sign back of number that "looks" the biggest

Examples

Find the sum of the following:

$$c)\ -12\frac{3}{5}+8\frac{1}{6}$$

DIFFERENT SIGNS

- Ignore the signs
- Subtract
- Put sign back of number that "looks" the biggest

Subtraction is the same as adding the opposite

1. Change the minus sign to addition
2. Change the second number into the opposite
3. Do the problem like a regular addition problem

$5 - 7$ $\qquad$ $3 - (-7)$

$-3 - 6$ $\qquad$ $-5 - (-9)$

Examples

Simplify the following:

$a)\ -7-(-5)$

$b)\ -2-6$

$c)\ 64-(-13)$

$d)\ 17-29$

Examples

Simplify the following:

$e) \; -24+(-33)-76$

$f) \; 46-(-81)-58$

Examples

Simplify the following:

$g)\ -3.59-(-50)=$

$h)\ 18.2-56.7=$

Examples

Simplify the following:

$i)\ 7.7 - 16.3$

$k)\ -20.3 - (-14.2) =$

Examples

Simplify the following:

$l)\ \frac{7}{3} - \frac{11}{3}$

$m)\ -\frac{4}{9} - \frac{5}{12}$

Example 2

Simplify the following:

$n)\ -3\frac{2}{3}-5\frac{3}{4}=$

$o)\ -2\frac{3}{8}-\left(-7\frac{1}{4}\right)=$