

ADDITIVE THINKING – SET 7 – PART 1

A Add / Subtract Whole Numbers

$$\begin{array}{r} 56 + 57 = \\ 129 + 28 + 64 = \\ 204 + \square = 555 \end{array} \quad \begin{array}{r} 635 \\ + 212 \\ \hline \end{array}$$

$$\begin{array}{r} \square - 299 = 136 \\ 908 - 66 = \end{array} \quad \begin{array}{r} 857 \\ - 183 \\ \hline \end{array}$$

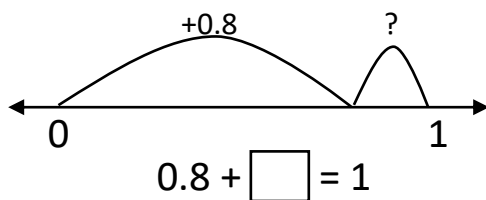
B Add / Subtract Decimals

$$\begin{array}{r} 7.3 + 3.5 = \\ 1.2 + 2.4 = \\ 7 + \square = 8.6 \end{array} \quad \begin{array}{r} 1.4 \\ + 2.4 \\ \hline \end{array}$$

$$\begin{array}{r} 5.1 - 2.9 = \\ 6.7 - \square = 4.7 \end{array} \quad \begin{array}{r} 6.7 \\ - 1.6 \\ \hline \end{array}$$

C Make 1 whole number from tenths

$$\begin{array}{ll} 0.6 + \square = 1 & \square + 0.9 = 1 \\ 1 - \square = 0.4 & 1 - 0.5 = \end{array}$$



D Inverse Equations

$$\begin{array}{lll} \square + 45 = 86 & \rightarrow & 86 - 45 = \\ 123 + \square = 183 & \rightarrow & 183 - 123 = \\ \square - 39 = 110 & \rightarrow & 110 + 39 = \end{array}$$

$$\begin{array}{r} \square \\ - 36 \\ \hline 21 \end{array} \rightarrow \begin{array}{r} 21 \\ + 36 \\ \hline \end{array}$$

F Balancing Equations Addition

$$73 + 28 = \overset{(-2)}{71} + \overset{(+2)}{30}$$

$$49 + 23 = \overset{(+\square)}{50} + \overset{(-\square)}{22}$$

$$65 + 41 = 60 + \square$$

$$34 + 49 = \square + \square =$$

$$\left\{ \begin{array}{l} 58 + 64 = \\ \overset{(+2)}{60} + \overset{(-2)}{\square} = \end{array} \right. \quad \left\{ \begin{array}{l} 175 + 27 = \\ \overset{(-3)}{\square} + \overset{(+3)}{\square} = \end{array} \right.$$

G Balancing Equations Subtraction

$$86 - 19 = \overset{(+1)}{87} - \overset{(+1)}{20}$$

$$74 - 33 = \overset{(-3)}{71} - \overset{(-3)}{30}$$

$$71 - 23 = 70 - \square$$

$$56 - 18 = \square - \square =$$

$$\left\{ \begin{array}{l} 93 - 37 = \\ \overset{(-3)}{90} - \overset{(-3)}{\square} = \end{array} \right. \quad \left\{ \begin{array}{l} 167 - 98 = \\ \overset{(+2)}{\square} + \overset{(+2)}{\square} = \end{array} \right.$$

ADDITIVE THINKING – SET 7 – PART 2

H Strong place value knowledge.

1264.7

How many hundreds in this number?

How much is the underlined number worth?

What value does the 1 represent in this number?

Write this number in written form.

Write two hundred and six and three tenths as a number.

Thousands	Hundreds	Tens	Ones

I Horizontal Place Value Addition

$$27 + 38 =$$

Expand $\rightarrow 20 + 7 + 30 + 8$

Add 10s $\rightarrow 20 + 30 = 50$

Add 1s $\rightarrow 7 + 8 = 15$

Add 10s + 1s $\rightarrow 50 + 15 = 65$

$$56 + 89 =$$

Add 10s $\rightarrow \square + \square =$

Add 1s $\rightarrow \square + \square =$

Add 10s + 1s $\rightarrow \square + \square =$

J Horizontal Place Value Subtraction

$$56 - 15 =$$

Expand $\rightarrow 50 + 6 - 10 - 5$

Subtract 10s $\rightarrow 50 - 10 = 40$

Subtract 1s $\rightarrow 6 - 5 = 1$

Add 10s + 1s $\rightarrow 40 + 1 = 41$

$$89 - 56 =$$

Subtract 10s $\rightarrow \square + \square =$

Subtract 1s $\rightarrow \square + \square =$

Add 10s + 1s $\rightarrow \square + \square =$

K Vertical Place Value Addition

$$\begin{array}{r} 63 \\ +12 \\ \hline \end{array}$$

Add 1s column $3 + 2$
Add 10s column $6 + 1$

With Regrouping:

$$\begin{array}{r} 1 \swarrow \\ 11 \\ 26 \\ +57 \\ \hline 94 \end{array}$$

Add 1s $- 1 + 6 + 7 = 14$ or
 $= 1$ ten and 4 ones
Add 10s $- 1 + 1 + 2 + 5 = 9$ tens

A space to carry the 10s

$$\begin{array}{r} \square \\ 136 \\ +25 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ +67 \\ \hline \end{array}$$

L Vertical Place Value Subtraction

$$\begin{array}{r} 68 \\ -37 \\ \hline \end{array}$$

Subtract 1s column $8 - 7$
Subtract 10s column $6 - 3$

With Regrouping:

$$\begin{array}{r} 8 \swarrow \\ 93 \\ -74 \\ \hline 19 \end{array}$$

$3 - 4 =$ less than 0, so regroup
 9 tens $- 1$ ten $= 8$ tens
 1 ten + 3 ones $= 13$ ones
 $13 - 4 = 9$ ones
 $8 - 7 = 1$ ten
 1 ten, 9 ones is 19

Provide boxes for regrouping

$\square \square$

$$\begin{array}{r} 82 \\ -27 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ -77 \\ \hline \end{array}$$