

Directions: Match the unit from the left column to an answer in the right column.

3 tens 9 hundreds 4 ones

27

8 tens 3 hundreds 4 ones

480

$20 + 3 + 100$

384

2 tens 7 ones

934

$8 + 400$

123

$80 + 400$

321

$20 + 1 + 300$

408

Decompose an Addend

$$\begin{array}{l} 24 + 19 = \\ \swarrow \searrow \\ 23 \quad 1 + 19 \\ 23 + 20 = 43 \end{array}$$

1. Break apart an addend to make the next ten.
2. Combine to make a whole ten.
3. Rewrite the new equation and solve.

$$\begin{array}{l} 37 + 54 = \\ \swarrow \searrow \\ 37 + 3 \quad 51 \\ ___ + ___ = ___ \end{array}$$

$$\begin{array}{l} 24 + 39 = \\ \swarrow \searrow \\ ___ ___ + ___ \\ ___ + ___ = ___ \end{array}$$

$$\begin{array}{l} 45 + 19 = \\ \swarrow \searrow \\ ___ \quad 1 + 19 \\ ___ + ___ = ___ \end{array}$$

$$\begin{array}{l} 28 + 45 = \\ \swarrow \searrow \\ 28 + ___ ___ \\ ___ + ___ = ___ \end{array}$$

$$\begin{array}{l} 26 + 68 = \\ \swarrow \searrow \\ ___ ___ + 68 \\ ___ + ___ = ___ \end{array}$$

$$\begin{array}{l} 137 + 25 = \\ \swarrow \searrow \\ 137 + ___ ___ \\ ___ + ___ = ___ \end{array}$$

Decompose to Subtract

$$\begin{array}{l} 85 - 37 = \\ \swarrow \searrow \\ 45 \quad 40 - 37 \\ \swarrow \\ 45 + 3 = 48 \end{array}$$

1. Look at the minuend. Decompose the whole so that one part is the next ten from the minuend.
2. Subtract from the tens.
3. Add the remaining parts.

$$\begin{array}{l} 98 - 57 \\ \swarrow \searrow \\ 38 \quad 60 - 57 \\ \swarrow \\ _ + _ = _ \end{array}$$

$$\begin{array}{l} 88 - 46 = \\ \swarrow \searrow \\ _ _ - 46 \\ _ + _ = _ \end{array}$$

$$\begin{array}{l} 45 - 19 = \\ \swarrow \searrow \\ 25 \quad 20 - 19 \\ _ + _ = _ \end{array}$$

$$\begin{array}{l} 75 - 27 = \\ \swarrow \searrow \\ _ _ - _ \\ _ + _ = _ \end{array}$$

$$\begin{array}{l} 75 - 27 = \\ \swarrow \searrow \\ _ \quad \underline{30} - 27 \\ _ + _ = _ \end{array}$$

$$\begin{array}{l} 64 - 45 = \\ \swarrow \searrow \\ _ _ - _ \\ _ + _ = _ \end{array}$$

Input / Output

Directions: Observe how the numbers change from the input column to the output column to identify the rule. Complete the tables.

Input	Output
5	35
70	100
300	
	290
	500

Rule: Add 30

Input	Output
300	
80	20
583	
	290
100	60

Rule: _____

Input	Output
390	440
75	
50	100
	725
745	

Rule: _____

Input	Output
826	
734	704
918	
100	70
	614

Rule: _____

Input	Output

Rule: _____

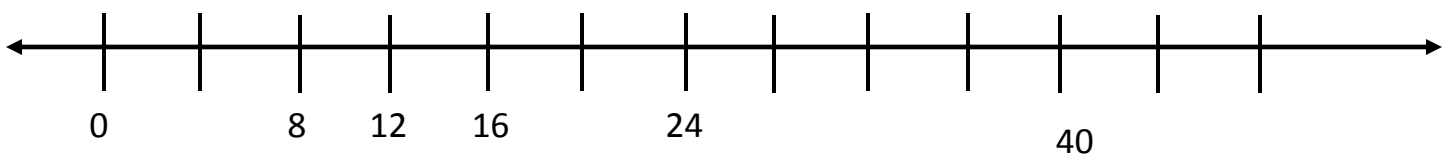
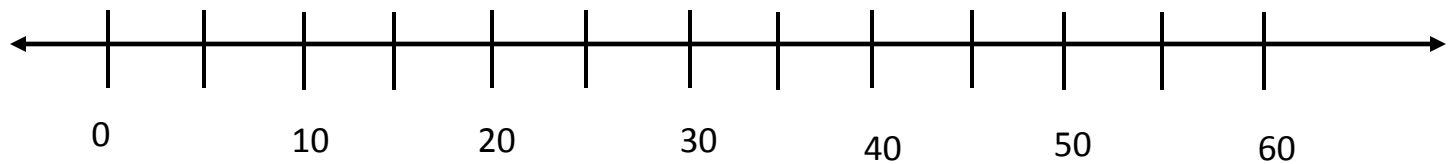
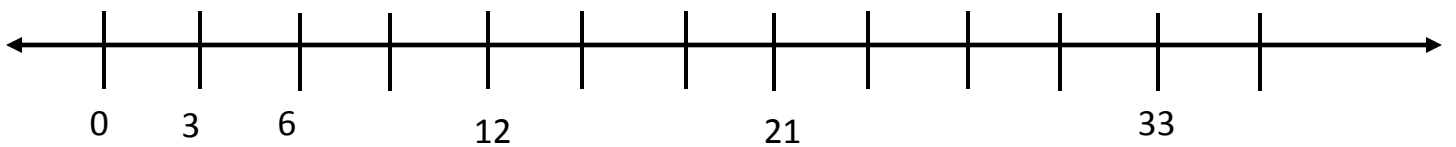
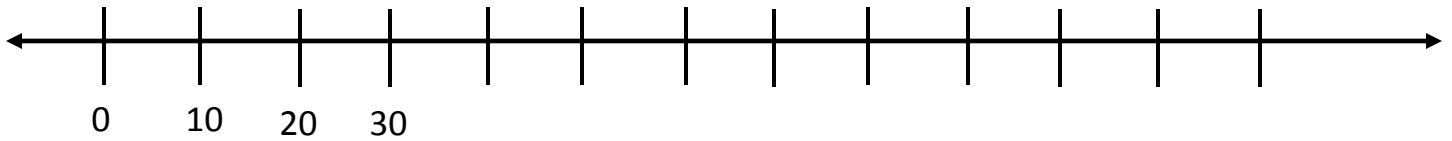
Input	Output

Rule: _____

Make your own up. See if a friend can solve them.

Patterns on a Number Line

Directions: Determine the pattern then label the ticks on the number line with the appropriate number.



Create a number line using a unit of your choice.



Coin Counting



_____cents



_____cents



_____cents



_____cents




_____cents





_____cents


Directions: Choose an expression from the box below to balance the equations.


20 - 3	92 - 35	120 - 40
45 + 45	100 - 12	75 - 19
70 - 32		


$$20 - 3 = 12 + 5$$



$$23 + 15 =$$


$$63 + 25 =$$


$$64 + 26 =$$


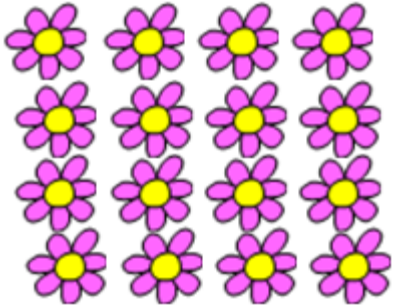
$$= 28 + 29$$


$$= 38 + 42$$


$$= 19 + 37$$


Arrays

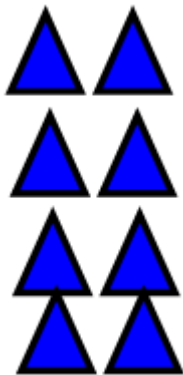
Directions: Write a repeated addition equation to find the total.

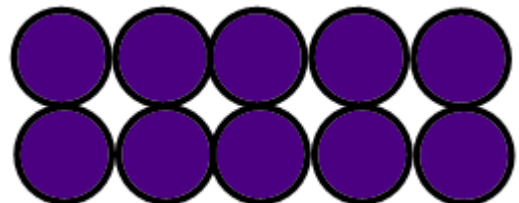












Compensation

$$49 - 16$$

-6	49
-6	16

$$\begin{array}{r} 43 \\ -10 \\ \hline 33 \end{array}$$

Compensation

$$49 - 16$$

+4	49
+4	16

$$\begin{array}{r} 53 \\ -20 \\ \hline 33 \end{array}$$

We use compensation to help us subtract mentally. It is easy to subtract when the subtrahend is a round number.

1. Add or subtract the same amount to both the minuend and subtrahend so that you are subtracting a round number.
2. Write the new equation and solve.

$$87 - 27$$

$$75 - 38$$

$$55 - 19$$

$$90 - 36$$

$$67 - 49$$

$$187 - 54$$

Comparing Numbers

1. Complete each *more* or *less* statement.

a. 10 more than 222 is _____.

b. 100 more than 222 is _____.

c. 10 less than 222 is _____.

d. 100 less than 222 is _____.

e. 515 is 10 more than _____.

f. 299 is 100 less than _____.

g. _____ is 100 less than 345.

h. _____ is 10 more than 397.

i. 898 is _____ than 998.

j. 607 is _____ than 597.

k. 10 more than 309 is _____.

l. 309 is _____ than 319.

2. Complete each regular number pattern.

a. 280, 290, _____, _____, _____, 330

b. 530, 520, 510, _____, _____, _____

c. 643, 543, _____, _____, _____, 143

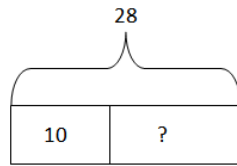
d. 681, 691, _____, _____, _____, 731

e. 427, _____, _____, _____, 387, 377

f. _____, _____, _____, 788, 778, 768

Tape Diagrams

Directions: Complete the missing information for each tape diagram and write 4 related facts.



Related Facts

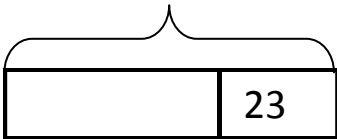
$$28 - 10 = 18$$

$$28 - 18 = 10$$

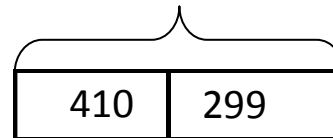
$$10 + 18 = 28$$

$$18 + 10 = 28$$

87

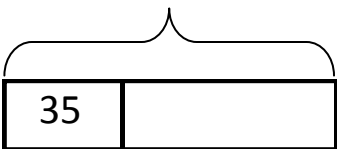


Related Facts

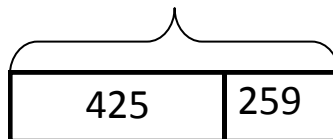


Related Facts

100

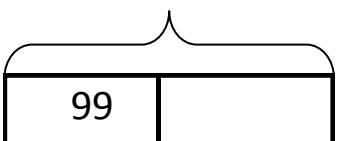


Related Facts



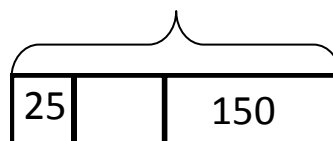
Related Facts

203



Related Facts

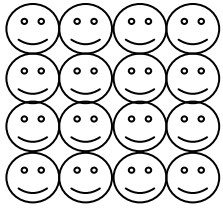
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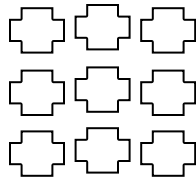


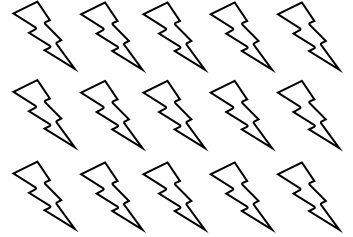
Related Facts

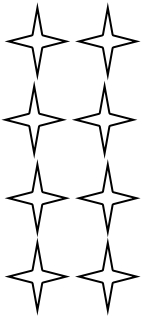
Arrays

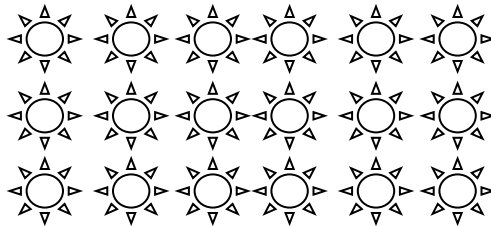
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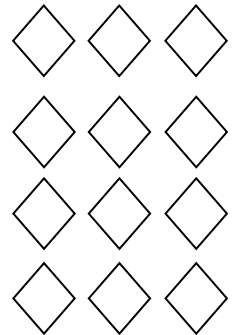












Make 3 arrays on your own and write a repeated addition equation to match your array.

Directions: Solve each subtraction problem then check your work with addition.

815

395

- 167

228

✓

167

+ 228

395

91 - 64

345 - 161

-

+

-

+

800 - 234

719 - 599

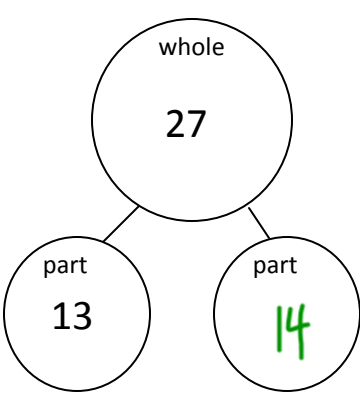
-

+

-

+

Directions: Use what you know about related facts to find the missing number in each bond.



$$\begin{array}{r} 27 \\ -13 \\ \hline 14 \end{array}$$

