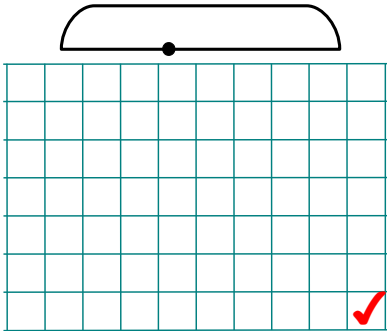


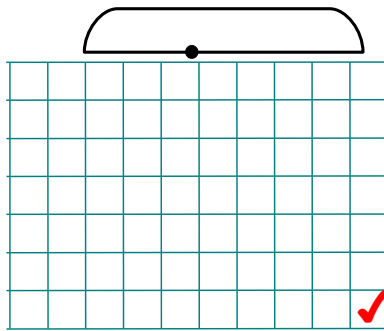
# Lesson 1 HW

1 In your notebook solve the equations by making a diagram:

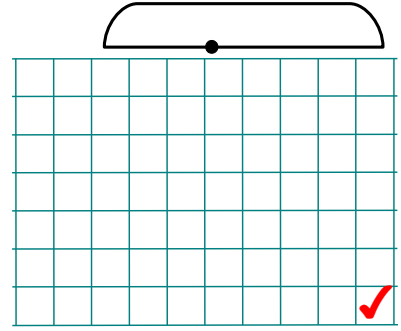
$$x - 124 = 76$$



$$y + 28 = 132$$

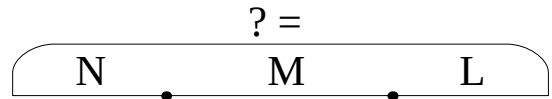


$$500 - z = 134$$

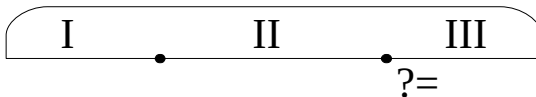
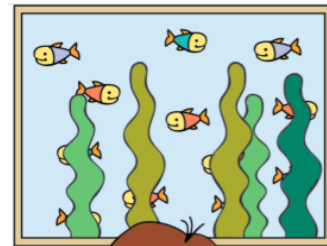


2 Use the diagrams to solve the word problems

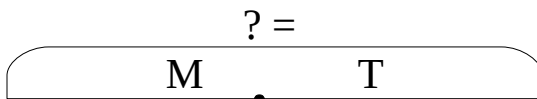
A. Nick has 12 pencils, Mike has 7 pencils, Lisa has 8 pencils. How many pencils do the three kids have altogether?



B. There are 12 fish in an aquarium. The second aquarium has 5 more fish than the first. How many fish are in the third aquarium if there are 50 fish in all three?



C. A taxi driver used 12 gallons of gasoline on Monday. This is 4 gallons less than the amount of gasoline he used on Tuesday. How many gallons of gasoline did he use in those two days?



3

Determine the order of operations in the expressions.

$$m + (n - k) - (t + k)$$

$$m + (n - k - t) + k$$

$$(m + n) - k - (t + d)$$

$$m + n - (k - t + k)$$

4 Compare:

$$254 - a \square 204 - a$$

$$m - 74 \square m - 47$$

$$c + d \square d + c$$

$$b - 287 \square b - 56$$

$$210 + n \square 215 + n$$

$$40 - k \square 540 - k$$

5 Compare:

$$28 - 5 \square 28 - (5 + 1)$$

$$p - 8 \square p - (8 + 3)$$

$$32 - x \square 32 - (x + 2)$$

$$28 - 5 \square 28 - (5 - 2)$$

$$p - 8 \square p - (8 - 1)$$

$$26 - y \square 26 - (y - 3)$$

$$28 - 5 \square 28 - (5 + a)$$

$$q - 8 \square q - (8 + m)$$

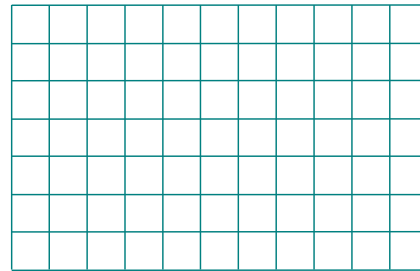
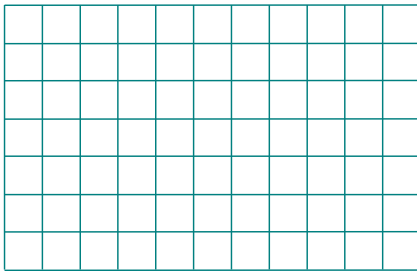
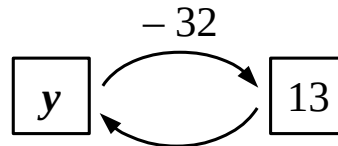
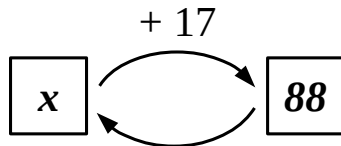
$$q - a \square q - (a + m)$$

$$28 - 5 \square 28 - (5 - b)$$

$$q - 8 \square q - (8 - n)$$

$$q - b \square q - (b - n)$$

6 Write the appropriate equations and solve them.



7 Determine the order of operations and evaluate the expressions:

$$215 - (38 + 169) =$$

$$500 - (239 + 85) + 457 =$$

$$(357 + 194) - 263 =$$

$$(304 - 26) - (72 + 168) =$$

8 Express in decimeters and centimeters:

$$54 \text{ cm} = \square \text{ dm } \square \text{ cm}$$

$$80 \text{ cm} = \square \text{ dm } \square \text{ cm}$$

$$122 \text{ cm} = \square \text{ dm } \square \text{ cm}$$

**9** Express in cm:

$24 \text{ dm} = \square \text{ cm}$

$66 \text{ dm} = \square \text{ cm}$

$30 \text{ dm} = \square \text{ cm}$

$2 \text{ dm } 7 \text{ cm} = \square \text{ cm}$

$8 \text{ dm } 5 \text{ cm} = \square \text{ cm}$

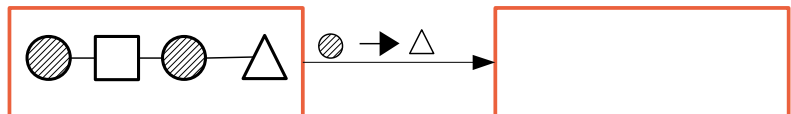
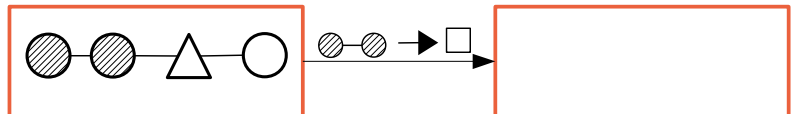
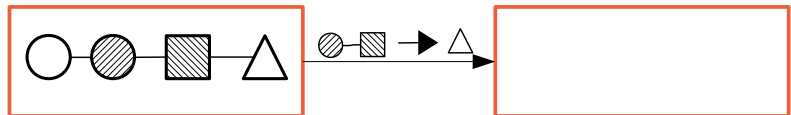
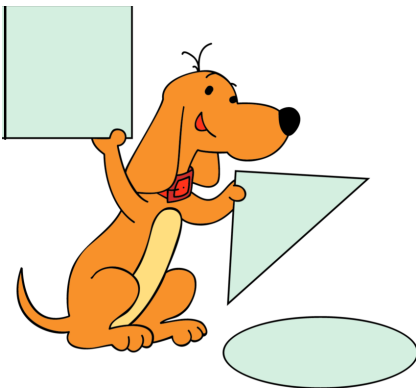
$80 \text{ dm } 5 \text{ cm} = \square \text{ cm}$

$1 \text{ m } 3 \text{ dm } 4 \text{ cm} = \square \text{ cm}$

$4 \text{ m } 6 \text{ dm } 1 \text{ cm} = \square \text{ cm}$

$2 \text{ m } 7 \text{ dm} = \square \text{ cm}$

**10** Replace:



**11** Transform the equations by doing replacements according to the instructions

$12 - x \div 2 = 4 \xrightarrow{x \div 2 \rightarrow z} \square$

$t = 5 \xrightarrow{t \rightarrow u \cdot 3} \square$

$7 + m + n = 16 \xrightarrow{q = m + n} \square$

$12 \div x + 7 = 10 \xrightarrow{12 \div x = t} \square$

**12** Calculate:

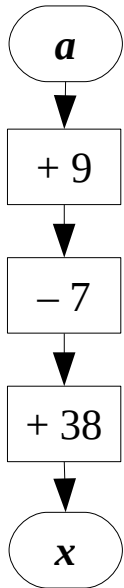
$$\begin{array}{r} 614 \\ + 329 \\ \hline \end{array}$$

$$\begin{array}{r} 407 \\ + 309 \\ \hline \end{array}$$

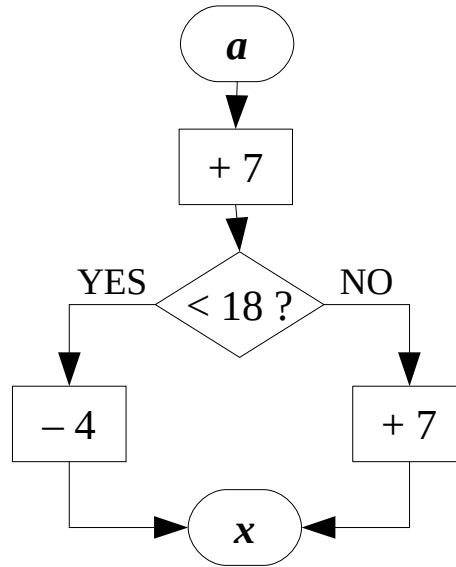
$$\begin{array}{r} \bullet 910 \\ 502 \\ - 235 \\ \hline \end{array}$$

$$\begin{array}{r} \bullet 910 \\ 700 \\ - 521 \\ \hline \end{array}$$

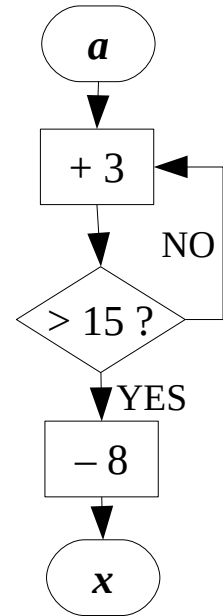
- 13** Perform the sequences of actions according to the algorithms on the drawing below. Label each algorithm as *linear*, or *branching*, or *cyclic*.



<b>a</b>	5	14	20
<b>x</b>			



<b>a</b>	5	14	20
<b>x</b>			



<b>a</b>	5	14	20
<b>x</b>			

- 14** Determine the order of operations in the expressions:

$$a + (b - c) + (d + m) - k$$

$$a + c - b + d - p + q$$

$$(m - k) + (x - y) - (a + c)$$

$$m - (a + b - c) + (m - n)$$

- 15** Insert the missing digits and check your work:

$$\begin{array}{r} + 3 \square 5 \\ \square 1 \square \\ \hline 739 \end{array}$$

$$\begin{array}{r} + \square 2 \square \\ 5 \square 3 \\ \hline 741 \end{array}$$

$$\begin{array}{r} - \square \square 6 \\ 34 \square \\ \hline 542 \end{array}$$

$$\begin{array}{r} - 62 \square \\ \square \square 3 \\ \hline 542 \end{array}$$

Check:

