

HW SOL 1.1

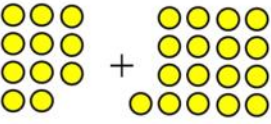
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Math 8 Chapter 1 Preliminary Assignment: Adding and Subtracting Integers:

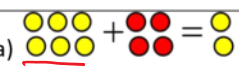

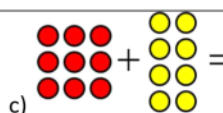
1. Add or Subtract the following without a calculator. Draw the counters with the space given:
Show all your work:

<p>a) $11 + 17$</p> 	<p>b) $12 - 9$ $\textcircled{3}$</p>	<p>c) $8 + (-11)$ $\textcircled{-3}$</p>
<p>d) $9 - (-15)$ $\textcircled{24}$</p>	<p>e) $6 - 20$ $\textcircled{-14}$</p>	<p>f) $9 + (-16) + 2$ $\textcircled{-5}$</p>
<p>g) $-8 + (-9)$ $\textcircled{-17}$</p>	<p>h) $-5 - 15$ $\textcircled{-20}$</p>	<p>i) $-12 + 7$ $\textcircled{-5}$</p>
<p>j) $-7 + 20$ $\textcircled{13}$</p>	<p>k) $12 - (-14)$ $\textcircled{26}$</p>	<p>l) $-11 + 6$ $\textcircled{-5}$</p>
<p>m) $12 - (-11) + 10 + (-9)$ $= 12 + 11 + 10 - 9$ $= 23 + 10 - 9$ $= 33 - 9$ $= 24$</p>	<p>n) $12 + (-13) - (14) - (-15)$ $12 - 13 - 14 + 15$ $-1 - 14 + 15$ $-15 + 15$ 0</p>	<p>o) $2 - 3 + 4 - 5 + (-7) - 6 - (-8)$ $-1 + 4 - 5 - 7 - 6 + 8$ $3 - 5 - 7 - 6 + 8$ $-2 - 7 - 6 + 8$ $-9 - 6 + 8$ $-15 + 8$ -7</p>

2. Evaluate each of the following without a calculator:

<p>a) $325 + (-180)$</p> $\begin{array}{r} 325 \\ -180 \\ \hline 145 \end{array}$	<p>b) $459 - 129$</p> $\begin{array}{r} 459 \\ -129 \\ \hline 330 \end{array}$	<p>c) $-180 + 65$</p> $\begin{array}{r} 17 \\ 180 \\ -65 \\ \hline -115 \end{array}$
<p>d) $-2200 + (-155)$</p> $\begin{array}{r} -2200 \\ -155 \\ \hline -2355 \end{array}$	<p>e) $-256 + 56$</p> -200	<p>f) $290 + (-160) + 45$</p> $\begin{array}{r} 290 - 160 + 45 \\ 130 + 45 \\ \hline = 175 \end{array}$

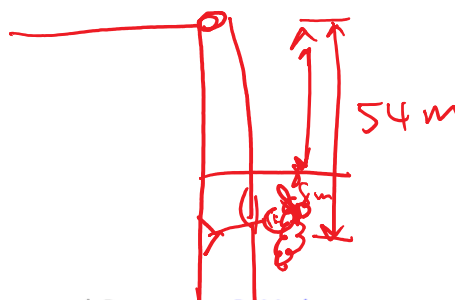
3. Write the statement for each of the following diagrams:

<p>a) </p> $6 + (-4) = 2$	<p>b) </p> $3 - (-6) = 9$	<p>c) </p> $-9 + 8 = -1$
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4. Find the missing value in each statement:

<p>a) $-153 + (?) = -193$</p> $-153 + (-40) = -193$	<p>b) $170 + (?) = 20$</p> $170 + (-150) = 20$	<p>c) $75 - (?) = -10$</p> $75 - (85) = -10$
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5. A climber is suspended 54 m below the edge of a cliff by a rope. If she were to climb up 8 m, how many below the edge of the cliff would she be then?

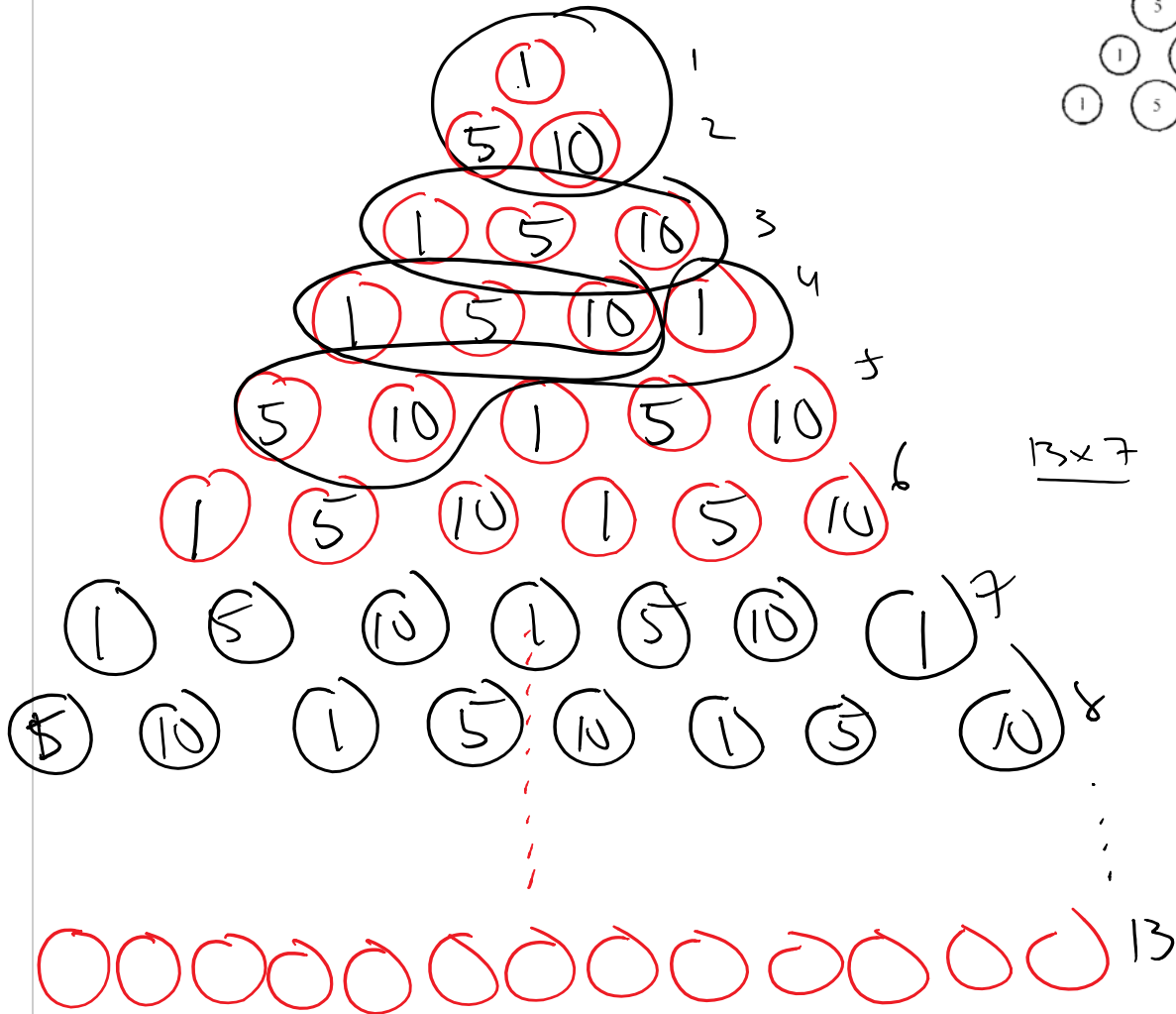


$$54 - 8 = 46 \text{ m}$$

6. The overnight low temperature is -5°C . The temperature rose 18°C during the following day. What was the day's high temperature?

$$-5^{\circ}\text{C} + 18^{\circ} = 13^{\circ}\text{C}$$

7. Micah placed pennies, nickels, and dimes in rows according to the diagram so that each row contains one more coin than the previous. What is the number of cents in the value of all the coins in the first 13 rows?



$$91 \text{ coins} \quad 90 \text{ coins} + 1 \text{ coin}$$

30 Groups + 1 cent.
of 3 coins

$$30 \times 16 + 1 \text{ cent}$$

$$480 + 1$$

$$= \$4.81 //$$