

34.)

a)  $0.25x$   
\$0.25 per minute more than plan

b)  $2y$   
2.00 per megabyte above the plan

c)  $0.25x + 2y + 55 = \text{total cost}$

Plan 55 + 25¢ per minute over + 2.00 per  
megabyte  
over

36.

a)  $6t + 1p$

b)  $27 = 6t + 1p$   
 $6t + 1p = 27$

c)  $\frac{21}{3t + 3p}$  to  $\frac{7}{1t + 1p}$

$$\begin{array}{r} 3t + 3p \\ 3(6) + 3(1) \\ 18 + 3 \\ 21 \end{array}$$

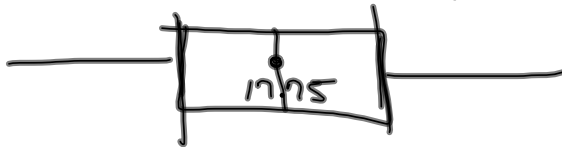
$$\begin{array}{r} 7 \\ 1t + 1p \\ 1(6) + 1(1) \\ 6 + 1 \\ 7 \end{array}$$

48.)

14.48   14.58   15.06   15.48   15.54   16.10   16.30   19.27

median of 14 #s = time of # 7

...



$$\begin{array}{r} 16.30 \\ 19.27 \\ \hline \div 2 \quad \textcircled{17.75} \end{array}$$

## 1-2 Order of Operations

vocabulary -

evaluate = value

$2^4 = 16$

$4^5 = 1024$

$7^3 = 343$

order of operation

P

parenthesis

E

exponents

M or D

multiply or divide

A or S

add or subtract

Please excuse my dear aunt Sally...

left first!

$$16 - 8 \div 2^2 + 14$$

$$16 - 8 \div 4 + 14$$

$$16 - 2 + 14$$

$$14 + 14$$

$$28$$

left to right!

$$\begin{aligned} 2A. \quad & 3 + 42 \cdot 2 - 5 \\ & 3 + 84 - 5 \\ & 87 - 5 \\ & \textcircled{82} \end{aligned}$$

$$\begin{aligned} 2B. \quad & 20 - 7 + 8 - 7 \cdot 11 \\ & 20 - 7 + 64 - 77 \\ & 13 + 64 - 77 \\ & 77 - 77 \\ & \textcircled{0} \end{aligned}$$

Within the innermost grouping first



start in the center move out.

$$\frac{8-5}{15+9} = \frac{3}{24} = \left(\frac{1}{8}\right)$$



$$\begin{aligned} 3A.) \quad & 5 \cdot 4(10-8) + 20 \\ & 5 \cdot 4(2) + 20 \\ & 5 \cdot 8 + 20 \\ & 40 + 20 \\ & \quad \textcircled{60} \end{aligned}$$

$$\begin{aligned} 3B) \quad & 15 - [10 + (3 - 2)^2] + 6 \\ & \quad \quad \quad \downarrow \\ & \quad \quad \quad (1)^2 \\ & 15 - [10 + 1] + 6 \\ & 15 - 11 \\ & \quad 4 + 6 \\ & \quad \quad (10) \end{aligned}$$

Substitute - Replace

1-2 16 - 58 even #  $\Delta$