

N F + Lest
 D _____
 P _____

1.1 to 1.4 cw/IP

1.1 cw #'s 18, 28, 30, 34, 38

18 $(3.2)^2 \rightarrow$ words: 3.2 SQUARED \rightarrow Product: $3.2 \cdot 3.2$

28 $1^5 \rightarrow$ Expand: $1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \rightarrow$ Evaluate 1
 means find the value

30 $5^3 \rightarrow$ Expand: $5 \cdot 5 \cdot 5 \rightarrow$ EVALUATE $\boxed{125}$

34 $(\frac{1}{4})^2 \rightarrow$ Expand: $\frac{1}{4} \cdot \frac{1}{4} \rightarrow$ EVALUATE $\boxed{\frac{1}{16}}$

38 EVALUATE X^2 WHEN $X = \frac{3}{4}$
 show substitution $\rightarrow (\frac{3}{4})^2 = \frac{3}{4} \cdot \frac{3}{4} = \boxed{\frac{9}{16}}$
 mental work

1.2 cw #'s 8, 10, 18, ~~28~~³⁰

8 $1 + 5^2 \div 50$
 $1 + 25 \div 50$
 1.5 or $1\frac{1}{2}$
 write the problem
 show work going down

- NOTES
- Order of operations
 - 1 ()'s INSIDE TO OUTSIDE
 - 2 Exponents
 - 3 \cdot, \div L \rightarrow R
 - 4 $+, -$ L \rightarrow R

10 $4^3 \div 8 + 8 =$
 $64 \div 8 + 8 =$
 $8 + 8 = \boxed{16}$

18 $8 [20 - (9 - 5)^2] =$
 $8 [20 - (4)^2] =$
 $8 [20 - 16] =$
 $8(4) = \boxed{32}$



1.2 CW (CWR)

(30) $\frac{B^3 - 21}{5(B) + 9} \xrightarrow{B=3} \frac{\text{show the} \quad (3)^3 - 21}{\text{substitute} \quad 5(3) + 9}$

$\xrightarrow{\text{simplify NUM}} \frac{27 - 21}{15 + 9} = \frac{6}{24} = \frac{1}{4}$
 $\xrightarrow{\text{simplify den}} \uparrow \text{Reduce}$

1.3 CW # 's ^ 20, 22, 31

(18) WRITE EXPRESSIONS

DEF: EXPRESSIONS HAVE NUMBERS, VARIABLES, OPERATIONS and ()'s. THEY DO NOT HAVE = SIGN

$20 + 5$

(20) $\rightarrow \frac{m}{60}$ (Number goes before variable)

UNIT RATES

(22) $\frac{300 \text{ yds}}{1 \text{ minute}} \cdot \left(\frac{3 \text{ ft.}}{1 \text{ yds}}\right) \cdot \left(\frac{1 \text{ min}}{60 \text{ sec}}\right) = \frac{900 \text{ FT}}{60 \text{ sec}}$

$\frac{90}{6} = \frac{15 \text{ FT}}{\text{SEC}}$ ← reduce

(31) WRITE KEY INFORMATION FOR ALL WORD PROBLEMS

KI: TICKET - \$19.95 PLUS \$3 CHARGE

* DEF. VARIABLE BASED ON QUESTION ASKED

X = # of tickets

(A) EXPRESSION FOR COST OF TICKETS: $19.95X + 3$

(B) COST FOR 5 TICKETS: $19.95(5) + 3 = \$102.75$

1.1 to 1.4 CW (CONT)

1.4 #1s 6, 8, 18, 20, 26, 40

(6) [QUANTITY MEANS ()'s] → 12 + 8k = 48

(8) [AT MOST MEANS ≤] → 4w ≤ 51

(18) 9 + 4y = 17 ← y = 1
9 + 4(1) = 17

show substitution

13 ≠ 17 | 1 IS NOT A SOLUTION

(20) 5 + 9 = 11 ← k = 10
10/5 + 9 = 11
2 + 9 = 11
11 = 11 ✓

10 IS / IS NOT A SOLUTION

(26) 2p - 1 > 7 ← p = 3
2(3) - 1 > 7
5 > 7 (F)

3 IS / IS NOT A SOLUTION

(40) KI: STORAGE HOLD 40 CD'S | BUY 15 CD'S?
OWN 27 CD'S

Define Variable

C = # of CD'S BOUGHT

INEQ

27 + C ≤ 40
-27 -27
C ≤ 13

ANSWER IN WORDS

SOLVE INEQ

You can not fit 15 CD'S in your storage