KEY

Tuesday

NAME

DATE

4/2

PERIOD

Unit 6, Lesson 2: Truth and Equations

1. Select **all** the true equations.

A. $5 + 0 = 0$ No $5 + 0 = 5$

B. $15 \cdot 0 = 0$ Yes

C. $1.4 + 2.7 = 4.1$ Yes

D. $\frac{2}{3} \cdot \frac{5}{9} = \frac{7}{12}$ No $\frac{2}{3} \cdot \frac{5}{9} = \frac{10}{27}$

E. $4\frac{2}{3} = 5 - \frac{1}{3}$ Yes

2. Mai's water bottle had 24 ounces in it. After she drank x ounces of water, there were 10 ounces left. Select **all** the equations that represent this situation.
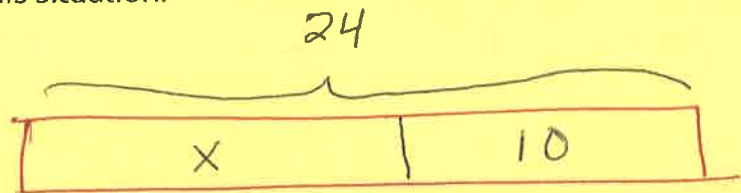
A. $24 \div 10 = x$

B. $24 + 10 = x$

C. $24 - 10 = x$

D. $x + 10 = 24$

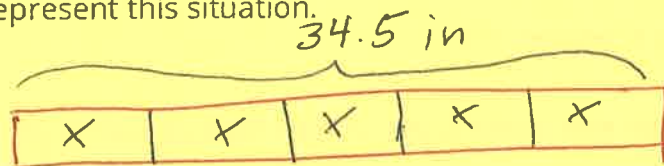E. $10x = 24$

24

| x | 10 |

3. Priya has 5 pencils, each x inches in length. When she lines up the pencils end to end, they measure 34.5 inches. Select **all** the equations that represent this situation.

34.5 in

| x | x | x | x | x |

A. $5 + x = 34.5$

B. $5x = 34.5$

C. $34.5 \div 5 = x$

D. $34.5 - 5 = x$

NAME   DATE   PERIOD   *times*

E. $x = (34.5) \cdot 5$ **12 ¢**   12 ⊗ something

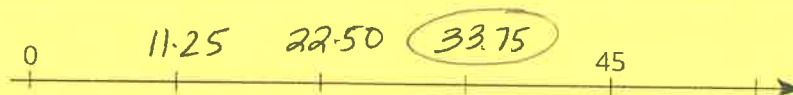4. Match each equation with a solution from the list of values.

Number		
A. $2a = 4.6$ $4.6 \div 2 = a$	3	2.3
B. $b + 2 = 4.6$ $4.6 - 2 = b$	4	2.6
C. $c \div 2 = 4.6$ $4.6 \times 2 = c$	6	9.2
D. $d - 2 = 4.6$ $4.6 + 2 = d$	5	6.6
E. $e + \frac{3}{8} = 2$ $2 - \frac{3}{8} = e$	2	$1\frac{5}{8}$
F. $\frac{1}{8}f = 3$ $3 \div \frac{1}{8}$ or $3 \cdot 8$	7	24
G. $g \div \frac{8}{5} = 1$	1	$\frac{8}{5}$

1. $\frac{8}{5}$

2. $1\frac{5}{8}$

~~3. 2.3~~

~~4. 2.6~~

~~5. 6.6~~

~~6. 9.2~~

~~7. 24~~

5. The daily recommended allowance of vitamin C for a sixth grader is 45 mg. 1 orange has about 75% of the recommended daily allowance of vitamin C. How many milligrams are in 1 orange? If you get stuck, consider using the double number line.

$45 \div 4 = 11.25$

OR

$\begin{array}{r} {}^{3}4{}^{2}5 \\ \times .75 \\ \hline 225 \\ 315 \\ \hline 33.75 \end{array}$

vitamin C (mg)

0 ——— 11.25 ——— 22.50 ——— (33.75) ——— 45 ———→

0 ——— 25% ——— 50% ——— 75% ——— 100% ———→

↑ 1 orange

(from Unit 3, Lesson 11)

6. There are 90 kids in the band. 20% of the kids own their own instruments, and the rest rent them.

$20\% = .2 = \frac{1}{5}$

a. How many kids own their own instruments?

$\frac{90}{1} \cdot \frac{1}{5} = \frac{90}{5} = $ (18 Kids) or

$10\% = 9$ kids so

$20\% = $ (18 Kids) or

b. How many kids rent instruments?

$90 - 18 = $ (72 rent)

own

$\begin{array}{r} 90 \\ \times .2 (1) \\ \hline 18.0 \end{array}$ (18 Kids)