EVALUATE

Mathwarmup049step
3RD Grade 02-25-19

1. $A = LW$ $L = 4, W = 2$
2. $P = 4N$ $N = 6$
3. $P = A + B + C$ $A = 2, B = 4, C = 5$
4. $P = A + B + C + D$ $A = 4, B = 5, C = 4, D = 5$
5. $P = 2L + 2W$ $L = 4, W = 2$
6. $A = N^2$ $N = 8$
7. $V = LWH$ $L = 2, W = 3, H = 4$
8. $y = 3N$ $N = 12$
9. $y = 2N + 3D + 4Q$ $N = 5, D = 10, Q = 25$
10. 291 dogs − 195 dogs − 41 dogs
11. $y = N + 6$ $N = 4$
12. $y = N - 4$ $N = 13$
13. $y = 2N + 4$ $N = 3$
14. From expanded notation write the standard form of the numbers

$(9 \cdot 100) + (4 \cdot 100) + (3 \cdot 10)$

15. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

16. $\frac{1}{7} + \frac{1}{7} + \frac{2}{7}$

17. $13N = 13 \cdot 4$

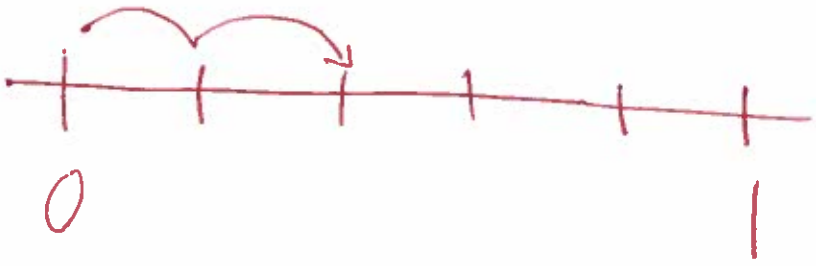
18. $3 \cdot 2 \text{ —— } 2 \cdot 3$

19. $6 - 3 - 3$

20. $\frac{2}{8} > \frac{1}{8}$ YES or NO

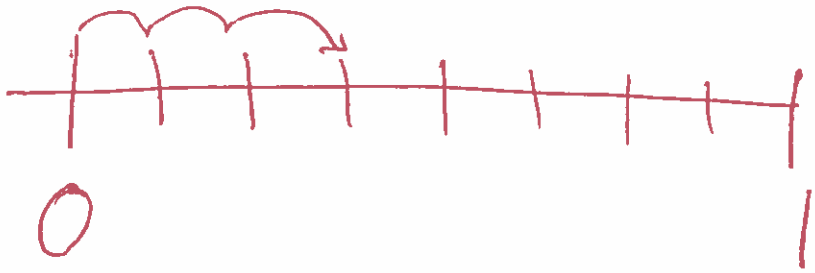
21. $\frac{2}{4} > \frac{2}{8}$ YES or NO

22.



Name the fraction

23.



Name the fraction

24. $y = 1.5N \qquad N = 12$

25. 621 dogs —— 295 dogs

26. $\frac{64 \text{ dogs} + 24 \text{ dogs}}{8}$

27. $y = 6Q$ $\quad Q = 0.25$

28. $2 \cdot 2 \cdot 2$

29. $2+2+2+2$

30. 2^3

31. $2 \cdot 2 \cdot 2 \cdot 2$

32. $\frac{468}{3}$

33. $\frac{466}{3}$

34. 78 dogs + 90 dogs + 151 dogs

35. $\frac{2}{3} > \frac{2}{4}$ (yes or no)

36. $10 \cdot 10 + 10 \cdot 10$

37. $20 \cdot 10$

38. $6 \cdot 8 - 2 \cdot 6$

39. $500 - N = 100$ (Is $N = 400$ a solution?)

40) $4 + 4 \div 2$

41) 

Does the expression represent the fraction of the marbels that are red?

$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

Yes or No

42)

Dog	Flea Tally
Red Dog	III
Blue Dog	𝍸 II
Green Dog	IIII
Purple Dog	𝍸 𝍸 II
Orange Dog	𝍸 𝍸 𝍸

What is the combined number of fleas on Red dog, Blue dog, and purple dog?

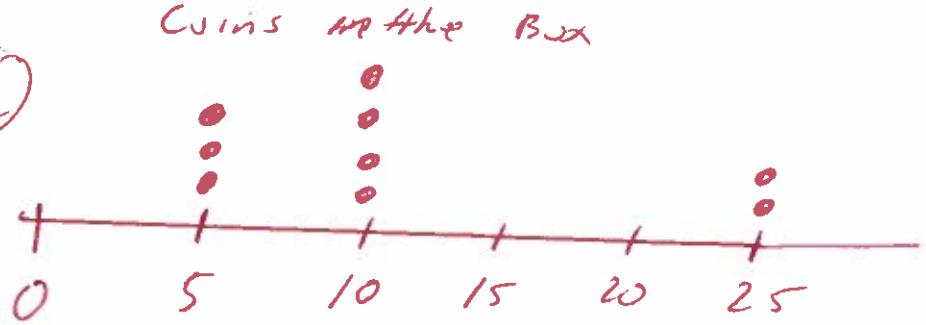
43) $2N = 8$

44) $N \div 2 = 8$

45) $N - 2 = 8$

46) $N + 2 = 8$

47.



Box

3 Nickels

4 dimes

2 Quarters

Dot plot represents the value in cents of each coin the box? YES OR NO

48. $12654 + 17 > 12646 + 21$

YES OR NO

49. Six doughnuts are divide equally among 3 brothers. What fraction of the doughnuts did each brother get?

1. $A = Lw$ $\quad L = 4,\ w = 2$

$A = (4)(2)$

$A = 8$

2. $P = 4N$ $\quad N = 6$

$P = 4(6)$

$P = 24$

(3) $P = A + B + C$ $A = 2,\ B = 4,\ C = 5$

$P = (2) + (4) + (5)$

$P = 2 + 4 + 5$

$P = 6 + 5$

$P = 11$

(4) $P = A + B + C + D$ $A = 4,\ B = 5,\ C = 4,\ D = 5$

$P = (4) + (5) + (4) + (5)$

$P = 4 + 5 + 4 + 5$

$P = 9 + 4 + 5$

$P = 13 + 5$

$P = 18$

5. $P = 2L + 2W$ $\quad L = 4,\ W = 2$

$P = 2(4) + 2(2)$

$P = 8 + 4$

$P = 12$

6. $A = N^2$ $\quad N = 8$

$A = (8)^2$

$A = (8)(8)$

$A = 64$

7. $V = LWH$ $\quad L=2,\ W=3,\ H=4$

$V = (2)(3)(4)$

$V = 2 \cdot 3 \cdot 4$

$V = 6 \cdot 4$

$V = 24$

8. $y = 3x$ $\quad x = 12$

$y = 3(12)$

$y = 36$

(9)

$y = 2N + 3D + 4Q$ $\quad N=5,\ D=10, Q=25$

$y = 2(5) + 3(10) + 4(25)$

$y = 10 + 30 + 100$

$y = 40 + 100$

$y = 140$

(10) 291 dogs − 195 dogs − 41 dogs =

96 dogs − 41 dogs = 55 dogs

$$\begin{array}{r} {}^{1}\cancel{2}\,{}^{18}\cancel{9}\,{}^{11}\cancel{1} \\ -\ 195 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 96 \\ -\ 41 \\ \hline 55 \end{array}$$

11. $y = x + 6$ $\quad x = 4$

$y = (4) + 6$

$y = 4 + 6$

$y = 10$

12. $y = x - 4$ $\quad x = 13$

$y = (13) - 4$

$y = 13 - 4$

$y = 9$

(13) $y = 2n + 4$ $\quad n = 3$

$y = 2(3) + 4$

$y = 6 + 4$

$y = 10$

(14.) From expanded notation write the standard form of the number.

$(9 \cdot 1000) + (4 \cdot 100) + (3 \cdot 10) =$

$9000 + 400 + 30 =$

$9400 + 30 =$

$9430 =$

$$\begin{array}{r} 9000 \\ +\ 400 \\ \hline 9400 \end{array}$$

$$\begin{array}{r} 9400 \\ +\ 30 \\ \hline 9430 \end{array}$$

15 $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$

$\frac{1+1+1}{4} =$

$\frac{3}{4} =$

16 $\frac{1}{7} + \frac{1}{7} + \frac{2}{7} =$

$\frac{1+1+2}{7} =$

$\frac{4}{7} =$

17) $13N = 13 \cdot 4$

$$\frac{13N}{13} = \frac{13 \cdot 4}{13}$$

$$\frac{13N}{13} = \frac{13 \cdot 4}{13}$$

$N = 4$

18. $3 \cdot 2 - 2 \cdot 3 =$

$6 - 6 =$

$0 =$

19. $6 - 3 - 3 =$

$3 - 3 =$

$0 =$

20. $\frac{2}{8} > \frac{1}{8}$ YES or NO?

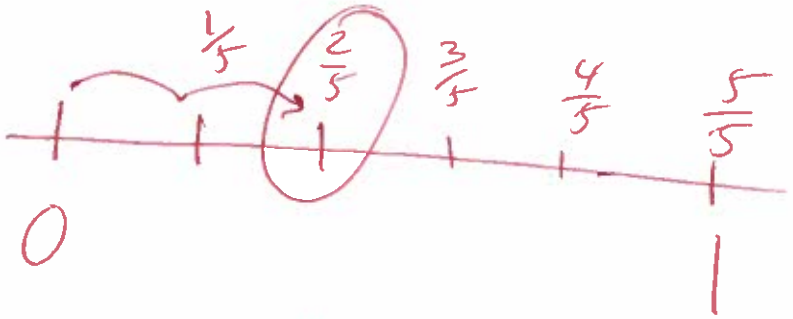
YES

21) $\frac{2}{4} > \frac{2}{8}$ Yes or No?

$\frac{2}{4}\left(\frac{2}{2}\right) > \frac{2}{8}$ Mult

$\frac{4}{8} > \frac{2}{8}$ YES

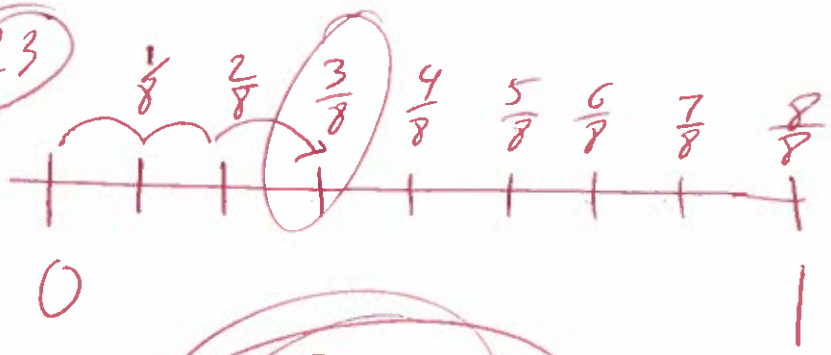
22.



Name the fraction

$\frac{2}{5}$

23



Name the fraction

$\frac{3}{8}$

24 $y = 1.5N$

$y = 1.5(12)$

$y = 18.0$

OR

$y = 18$

$N = 12$

$$\begin{array}{r} 12 \\ \times\ 1.5 \\ \hline 60 \\ 12 \\ \hline 18.0 \end{array}$$

25. 621 dogs − 295 dogs =

326 dogs =

$$\begin{array}{r} {}^{5}\cancel{6}\,{}^{11}\cancel{2}{}^{1}4 \\ -\,295 \\ \hline 326 \end{array}$$

26. $\dfrac{64 \text{ dogs} + 24 \text{ dogs}}{8} =$

$$\begin{array}{r} 64 \\ +\,24 \\ \hline 88 \end{array}$$

$\dfrac{88 \text{ dogs}}{8} =$

11 dogs =

$$\begin{array}{r|l} & 11 \\ \hline 8 & 88 \\ -\,(8) & \\ \hline & 8 \\ -\,(8) & \\ \hline & 0 \text{ rem} \end{array}$$

27) $y = 6Q$

$y = 6(.25)$

$y = 1.50$

OR

$y = 1.5$

$Q = .25$

$$\begin{array}{r} {}^{3} \\ .25 \\ \times\ 6 \\ \hline 1.50 \end{array}$$

28) $2 \cdot 2 \cdot 2 =$

$4 \cdot 2 =$

$8 =$

(29) $2+2+2+2=$

$4+2+2=$

$6+2=$

$8=$

(30) $2^3=$

$2 \cdot 2 \cdot 2=$

$4 \cdot 2=$

$8=$

(31) $2 \cdot 2 \cdot 2 \cdot 2 =$

$4 \cdot 2 \cdot 2 =$

$8 \cdot 2 =$

$16 =$

(32) $\frac{468}{3} =$

$156 =$

$$
\begin{array}{r}
156 \\
3\overline{)468} \\
(3) \\
\hline
16 \\
-(15) \\
\hline
18 \\
-(18) \\
\hline
0 \text{ rem}
\end{array}
$$

33. $\frac{466}{3} =$

$155\frac{1}{3} =$

OR

155 r 1

$$
\begin{array}{r}
155\ \frac{1}{3} \\
3\overline{)466} \\
-(3) \\
\hline
16 \\
-(15) \\
\hline
16 \\
-(15) \\
\hline
1\ \text{rem}
\end{array}
$$

34. 78 dogs + 90 dogs + 151 dogs =

168 dogs + 151 dogs =

319 dogs =

$$
\begin{array}{r}
78 \\
+90 \\
\hline
168
\end{array}
$$

$$
\begin{array}{r}
{\scriptstyle 1} \\
168 \\
+\ 151 \\
\hline
319
\end{array}
$$

35 $\frac{2}{3} > \frac{2}{4}$ yes or no

$\frac{2}{3}\left(\frac{4}{4}\right) > \frac{2}{4}\left(\frac{3}{3}\right)$

$\frac{8}{12} > \frac{6}{12}$ yes

36 $10 \cdot 10 + 10 \cdot 10 =$

$100 + 10 \cdot 10 =$

$100 + 100 =$

$200 =$

37) $20 \cdot 10 =$

$200 =$

$$\begin{array}{r} 20 \\ \times\ 10 \\ \hline 00 \\ 20 \\ \hline 200 \end{array}$$

38. $6 \cdot 8 - 2 \cdot 6 =$

$48 - 2 \cdot 6 =$

$48 - 12 =$

$36 =$

$$\begin{array}{r} 48 \\ -\ 12 \\ \hline 36 \end{array}$$

39

$500 - N = 100$

Is $N = 400$ a solution?

$500 - (400) = 100$

$500 - 400 = 100$

$100 = 100$

YES $N = 400$ is a solution.

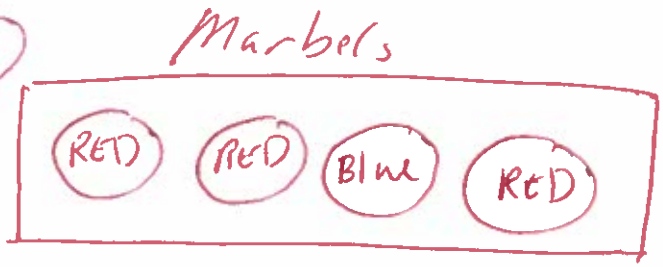
40.

$4 + 4 \div 2 =$

$4 + 2 =$

$6 =$

41



Does the expression represent the fraction of the marbles that are red?

$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$

$\frac{1+1+1}{4} =$

$\frac{3}{4} =$

YES

42.

Dog	Flea Tally
RED Dog	III
Blue Dog	𝍸 II
Green Dog	IIII
Purple Dog	𝍸 𝍸 II
Oranx Dog	𝍸 𝍸 𝍸

What is the combined number of fleas on Red dog, Blu dog, and Purple dog?

Red dog = III = 3

Blu dog = 𝍸 II = 7

Purple dog = 𝍸 𝍸 II = 12

$$\begin{array}{r} 3 \\ 7 \\ +\,12 \\ \hline 22 \end{array}$$

22 Fleas

(43) $2N = 8$

$\frac{2N}{2} = \frac{8}{2}$

$N = 4$

(49) $N \div 2 = 8$

$\frac{N}{2} = 8$ Rewrite

$2\left(\frac{N}{2}\right) = 2(8)$ Mult

$\frac{2N}{2} = 16$

$\frac{2N}{2} = 16$

$N = 16$

45. $N - 2 = 8$

$N - 2 + 2 = 8 + 2$

$N = 10$

46. $N + 2 = 8$

$N + 2 - 2 = 8 - 2$

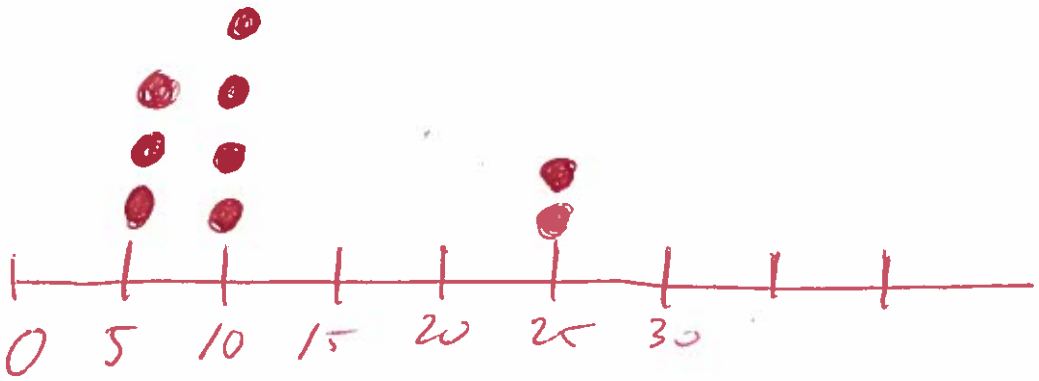
$N = 6$

47.

Box

3 Nickels
4 dimes
2 Quarters

Coins in the box



Value of coins in cents.

Dot plot represents the value in cents of each coin in the box?

YES OR NO

YES

48

$12654 + 17 > 12646 + 21$

YES or NO

$12,671 > 12,667$

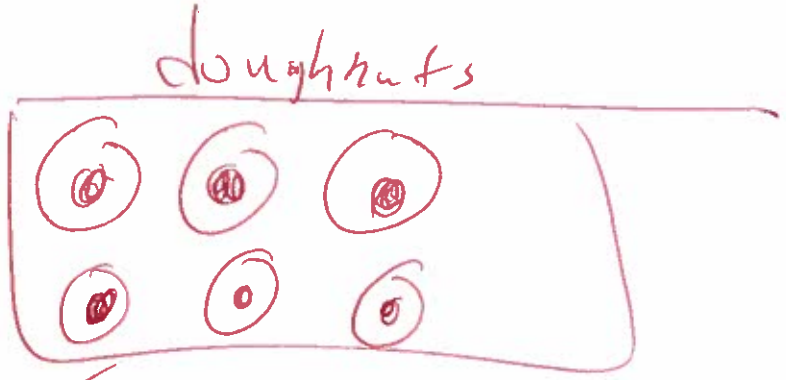
$$\begin{array}{r} {}^{1}12654 \\ +\quad 17 \\ \hline 12671 \end{array}$$

YES

$$\begin{array}{r} 12646 \\ +\quad 21 \\ \hline 12667 \end{array}$$

(49)

Six doughnuts are divided equally among 3 brothers. What fraction of the doughnuts did each brother get?



$\frac{2}{6}$:OR

$\frac{2(1)}{2(3)} =$

$\frac{\cancel{2}(1)}{\cancel{2}(3)} =$ OR

$\frac{1}{3} =$