MATH 5th/6th Grade Warm up Step 99
02-11-19
OL-B3-A

1. What is the total amount. 9 cents, 6 cents, and 8 dollars.
2. $2.65 \_\_ 2.675$ $<, >, =$
3. $y = x + 1.5$ eval $x = 3$
4. $A = LW$ eval $L = 8.50$, $W = 5$
5. $25\sqrt{4.25}$
6. $10 + 20 + 30 + N + 40 = 300$
7. $\frac{1}{5.05} = \frac{20}{N}$
8. $2[9.7 - 2(1.2)]$
9. $3(17) + 2(9) = N + 45$
10. what number is not prime? 2, 3, 5, 7, 11, 12, 13
11. $\frac{1}{4} \div 8$
12. $12 \div \frac{1}{6}$
13. $83 = N + 20 + 40$
14. $V = LWH$, $L = 3$, $W = 2$, $H = 2$
15. $y = 1.5x$, eval $x = 15$
16. Write from expanded notation to a numeral $(4 \cdot 10) + (7 \cdot 0.1)$
17. $\frac{15(.25)}{3}$
18. $97.8 - 9\frac{1}{10}$
19. 8 yards = N feet
20. 19 feet = N inches
21. $\frac{1}{2.4} = \frac{60}{N}$
22. find the area of a square with side = 4.
23. find the perimeter of a square with side = 10
24. find the perimeter of a triangle with sides $A = 3$, $B = 5$, $C = 7$
25. $(21 + 31) \cdot 4$
26. $y = x + 15$ eval $x = 10$
27. $y = \frac{1}{2}x$ eval $x = 20$
28. $y = 2x + 6$ eval $x = 2$
29. $\frac{N}{93.4} = \frac{1}{20}$
30. $22N = 572$
31. $A = LW$, $L = 12$, $W = 2.4$
32. $\frac{1}{4} + (8 \cdot 5)$
33. $\frac{1}{4}(30)$
34. $\frac{2}{5}(50)$

(35) $4+20\div 2$

(36) $4+6\cdot 2$

(37) $4\cdot(2+3)$

(38) graph $(4,1)$

(39) graph $(0,3)$

(40) graph $(1,8)$

(41) graph $y=2x$

x	y
0	
1	
2	

(42) graph $y=\frac{1}{2}x$

x	y
0	
2	
4	

(43) graph $y=x+2$

x	y
0	
1	
2	

(44) $f(x)=2x+3$ find $f(5)$

(45) graph $f(x)=2x+4$

x	f(x)
0	
1	
2	

(46) $f(x)=x^2+3x+2$ find $f(4)$

(47) if $A=0.9461$, $B=1.42$, $C=0.5021$ order from least to greatest

(48) estimate to the dollar

$3(\$18.89)+2(\$9.98)+\$35$

(49) students in a Math class were asked to bring pictures of their grandma. What fraction of the students brought 3 or more pictures?

① what is the total amount.
97 cents, 6 cents, and 8 dollars.

$$\begin{array}{r} .97 \\ .06 \\ +\ 8.00 \\ \hline 9.03 \end{array}$$

② Compare

2.65 2.675

$2.650 < 2.675$

(3) $y = x + 1.5$ eval if $x = 3$

$y = (3) + 1.5$

$y = 3 + 1.5$

$y = 4.5$

$$\begin{array}{r} 3.0 \\ +\ 1.5 \\ \hline 4.5 \end{array}$$

(4) $A = LW$ eval $L = 8.50$, $W = 5$

$A = (8.50)(5)$

$A = 42.50$

$$\begin{array}{r} 8.50 \\ \times\ 5 \\ \hline 42.50 \end{array}$$

(5.)

$25\overline{)4.25}$ =

$25\overline{)4.25}$ with quotient .17 (circled)

− (25)

175

− (175)

0 rem

$$\begin{array}{r} 42 \\ -25 \\ \hline 17 \end{array} \qquad \begin{array}{r} 25 \\ \times\ 7 \\ \hline 175 \end{array}$$

(6.)

$10 + 20 + 30 + N + 40 = 300$

$60 + N + 40 = 300$

$100 + N = 300$

$100 + N - 100 = 300 - 100$

$N = 200$ (circled)

7. $\frac{1}{5.05} = \frac{20}{N}$

$1(N) = 5.05(20)$ Cross Mult

$N = 101.00$

$N = 101$

$$\begin{array}{r} 1 \\ 5.05 \\ \times\ 20 \\ \hline 000 \\ 1010 \\ \hline 101.00 \end{array}$$

8. $2[9.7 - 2(1.2)] =$ PEMDAS

$2[9.7 - 2.4] =$

$2[7.3] =$

$14.6 =$

$$\begin{array}{r} 1.2 \\ \times\ 2 \\ \hline 2.4 \end{array} \qquad \begin{array}{r} 9.7 \\ -2.4 \\ \hline 7.3 \end{array}$$

$$\begin{array}{r} 7.3 \\ \times\ 2 \\ \hline 14.6 \end{array}$$

(9) $3(17) + 2(9) = N + 45$

$51 + 18 = N + 45$

$69 = N + 45$

$69 - 45 = N + 45 - 45$

$24 = N$

$$\begin{array}{r} {}^{2} \\ 17 \\ \times\ 3 \\ \hline 51 \end{array} \qquad \begin{array}{r} 51 \\ +18 \\ \hline 69 \end{array}$$

$$\begin{array}{r} 69 \\ -45 \\ \hline 24 \end{array}$$

(10.) what number is not a prime?

2, 3, 5, 7, 11, (12), 13

12 is not a prime number.

(11) $\frac{1}{4} \div 8 =$

$\frac{1}{4} \div \frac{8}{1} =$

$\frac{1}{4} \cdot \frac{1}{8} =$ rewrite

$\frac{1}{32} =$

(12) $12 \div \frac{1}{6} =$

$\frac{12}{1} \div \frac{1}{6} =$

$\frac{12}{1} \cdot \frac{6}{1} =$ rewrite

$\frac{72}{1} =$

$72 =$

$$\begin{array}{r} {\scriptstyle 1} \\ 12 \\ \times \quad 6 \\ \hline 72 \end{array}$$

(13) $83 = N + 20 + 40$

$83 = N + 60$

$83 - 60 = N + 60 - 60$

$23 = N$

$83 - 60 = 23$

(14) $V = LWH$ eval if $L = 3$, $W = 2$, $H = 2$

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

$V = 6(2)$

$V = 12$

(15.) $y = 1.5x$ eval if $x = 15$

$y = 1.5(15)$

$y = 22.5$

$$\begin{array}{r} {}^{2} \\ 15 \\ \times 1.5 \\ \hline 75 \\ 15 \\ \hline 22.5 \end{array}$$

(16.) Write from expanded notation to a numeral.

$(4 \cdot 10) + (7 \cdot 0.1) =$

$(40) + (0.7) =$

$40 + 0.7 =$

$40.7 =$

$$\begin{array}{r} 0.1 \\ \times \ 7 \\ \hline 0.7 \end{array}$$

$$\begin{array}{r} 40.0 \\ + \ 0.7 \\ \hline 40.7 \end{array}$$

17. $\frac{15(.25)}{3} =$

$\frac{(3)(5)(.25)}{(3)} =$

$\frac{(3)(5)(.25)}{(3)} =$

$(5)(.25) =$

$1.25 =$

Primes 2, 3, 5, 7, 11...

$3\overline{)15}$
$5\overline{)5}$
1

$15 = (3)(5)$

$.25 \times 5 = 1.25$

18. $97.8 - 9\frac{1}{10} =$

$97.8 - (9\frac{1}{10}) =$

$97.8 - (9 + \frac{1}{10}) =$

$97.8 - (9 + .10) =$

$97.8 - (9.10) =$

$97.8 - 9.10 =$

$88.70 =$

OR

$88\frac{7}{10}$

$\frac{1}{10} \rightarrow .10$

$10\overline{)1.00}$
$-(10)$
0
$-(0)$
0

$97.80 - 9.10 = 88.70$

(19) 8 yards = N feet

1 yard = 3 feet

8(3 feet) = N

24 feet = N

(20) 19 feet = N inches

1 foot = 12 inches

19(12) = N

228 inches = N

$$\begin{array}{r} 1 \\ 19 \\ \times\ 12 \\ \hline 138 \\ 19 \\ \hline 228 \end{array}$$

(21) $\frac{1}{2.4} = \frac{60}{N}$

$1(N) = 2.4(60)$ cross mult

$N = 144.0$

$N = 144$

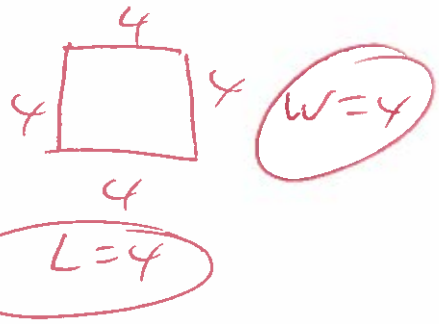
$$\begin{array}{r} 2.4 \\ \times 60 \\ \hline 00 \\ 144 \\ \hline 144.0 \end{array}$$

(22) find the area of a square with side = 4

$A = LW$ area formula

$A = (4)(4)$

$A = 16$



(23.) Find the perimeter of a square with side = 10

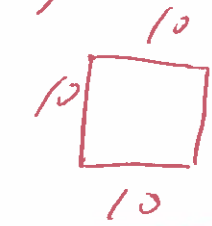
Perimeter Formula

$P = 2L + 2W$

$P = 2(10) + 2(10)$

$P = 20 + 20$

$P = 40$



W = 10

L = 10

(29) Find the perimeter of a triangle with sides $A = 3$, $B = 5$, $C = 7$

Perimeter formula

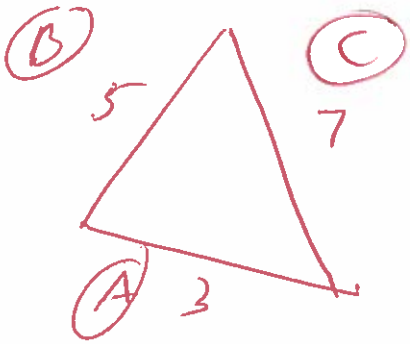
$P = A + B + C$

$P = (3) + (5) + (7)$

$P = 3 + 5 + 7$

$P = 8 + 7$

$P = 15$



(25) $(21+31) \cdot 4 =$

$(52) \cdot 4 =$

$208 =$

$$\begin{array}{r} 21 \\ +31 \\ \hline 52 \end{array}$$

$$\begin{array}{r} 52 \\ \times\ 4 \\ \hline 208 \end{array}$$

(26) $y = x + 15$ eval if $x = 10$

$y = (10) + 15$

$y = 10 + 15$

$y = 25$

$$\begin{array}{r} 10 \\ +15 \\ \hline 25 \end{array}$$

27. $y = \frac{1}{2}x$, eval if $x = 20$

$y = \frac{1}{2}(20)$

$y = \frac{1}{2}\left(\frac{20}{1}\right)$ rewrite

$y = \frac{20}{2}$

$y = 10$

28. $y = 2x + 6$ eval if $x = 2$

$y = 2(2) + 6$

$y = 4 + 6$

$y = 10$

(29)

$$\frac{N}{93.4} = \frac{1}{20}$$

$20(N) = 93.4(1)$ cross mult

$20N = 93.4$

$\frac{20N}{20} = \frac{93.4}{20}$

$N = 4.67$

$$\begin{array}{r} 4.67 \\ 20\overline{)93.40} \\ -(80) \\ \hline 134 \\ -(120) \\ \hline 140 \\ -(140) \\ \hline 0 \text{ rem} \end{array}$$

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(30) $22N = 572$

$\frac{22N}{22} = \frac{572}{22}$

$N = 26$

$$\begin{array}{r} 26 \\ 22\overline{)572} \\ -(44) \\ \hline 132 \\ -(132) \\ \hline 0 \text{ rem} \end{array}$$

$$\begin{array}{r} 1 \\ 22 \\ \times\ 6 \\ \hline 132 \end{array}$$

(31.) $A = LW$ eval if $L = 12$, $W = 2.4$

$A = (12)(2.4)$

$A = 28.8$

$$\begin{array}{r} 12 \\ \times\ 2.4 \\ \hline 48 \\ 24 \\ \hline 28.8 \end{array}$$

(32.) $\frac{1}{4} + (8 \cdot 5) =$ PEMDAS

$\frac{1}{4} + (40) =$

$\frac{1}{4} + 40 =$

$.25 + 40 =$

$40.25 =$

$$4\overline{)1.00}\quad .25$$
$$-(8)$$
$$20$$
$$-(20)$$
$$0 \text{ rem}$$

$$\begin{array}{r} 40.00 \\ +\ .25 \\ \hline 40.25 \end{array}$$

OR $40\frac{1}{4}$

(33) $\frac{1}{4}(30) =$

$\frac{1}{4}\left(\frac{30}{1}\right) =$

$\frac{1}{(2)(2)} \cdot \frac{(2)(3)(5)}{1} =$

$\frac{(1)}{(2)(2)} \cdot \frac{(2)(3)(5)}{(1)} =$

$\frac{1(3)(5)}{(2)(1)} =$

$\frac{15}{2} =$

Primes 2, 3, 5, 7, 11, ...

2 | 4
2 | 2
1

2 | 30
3 | 15
5 | 5
1

$4 = 2 \cdot 2$

$30 = 2 \cdot 3 \cdot 5$

(34) $\frac{2}{5}(50) =$

$\frac{2}{5}\left(\frac{50}{1}\right) =$

$\frac{(2)}{(5)} \cdot \frac{(2)(5)(5)}{1}$

$\frac{(2)}{(5)} \cdot \frac{(2)(5)(1)}{1} =$

$\frac{(2)(2)(5)}{1} =$

$\frac{20}{1} =$ 20

Primes 2, 3, 5, 7, 11, ...

2 | 50
5 | 25
5 | 5
1

$50 = 2 \cdot 5 \cdot 5$

35 $4 + 20 \div 2 =$

PEMDAS

$4 + 10 =$

$14 =$

36 $4 + 6 \times 2 =$

PEMDAS

$4 + 12 =$

$\overset{12}{+4}$

$16 =$

16

(37) $4 \cdot (2+3) =$ PEMDAS

$4 \cdot (5) =$

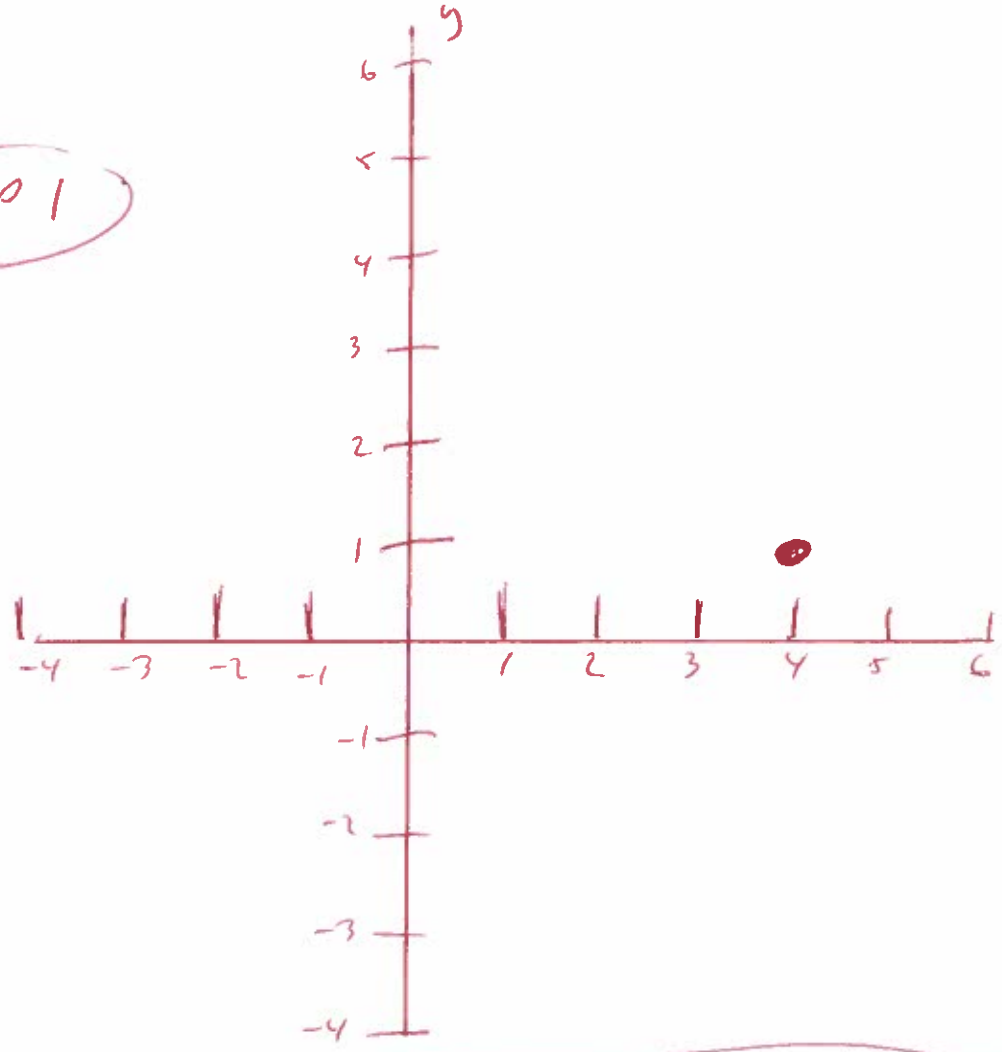
$20 =$

(38) graph point $(\underset{x}{4}, \underset{y}{1})$

(4, 1)

right 4

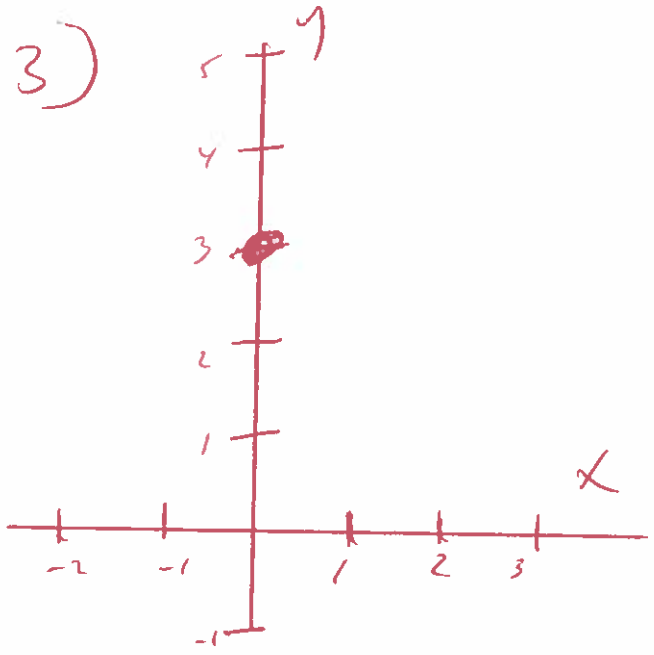
up 1



(39) graph point (0, 3)

(0, 3)

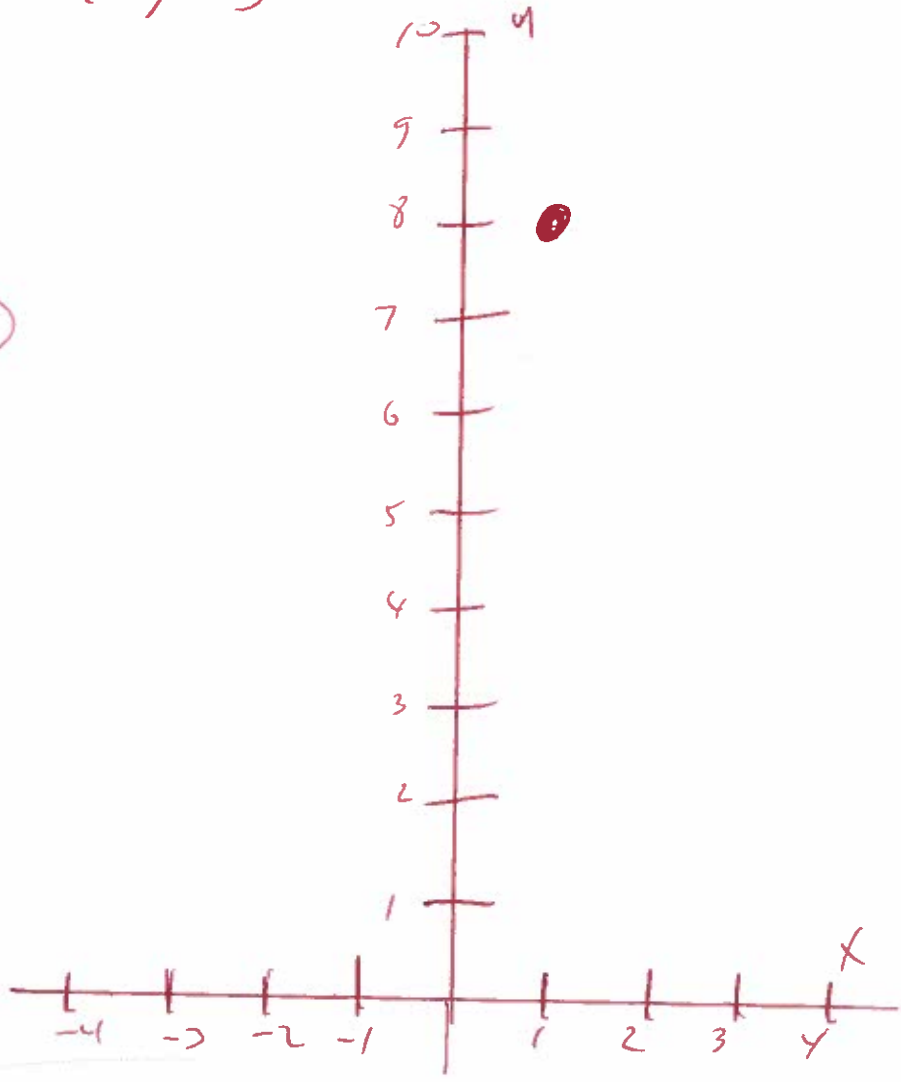
right 0 — up 3



(40) graph point (1, 8)

(1, 8)

right 1 — up 8



41. Graph $y = 2x$

$y = 2(0)$

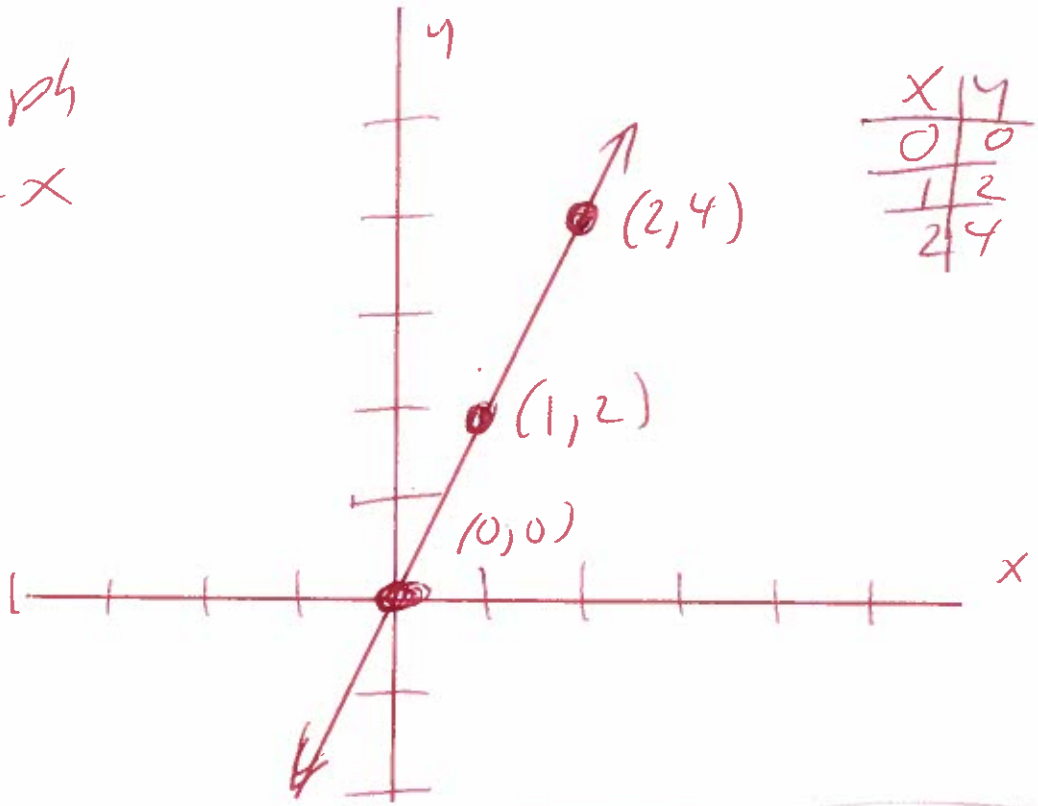
$y = 0$

$y = 2(1)$

$y = 2$

$y = 2(2)$

$y = 4$



x	y
0	0
1	2
2	4

42. Graph $y = \frac{1}{2}x$

$y = \frac{1}{2}(0)$

$y = 0$

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

$y = \frac{1}{2}\left(\frac{2}{1}\right)$

$y = \frac{2}{2}$

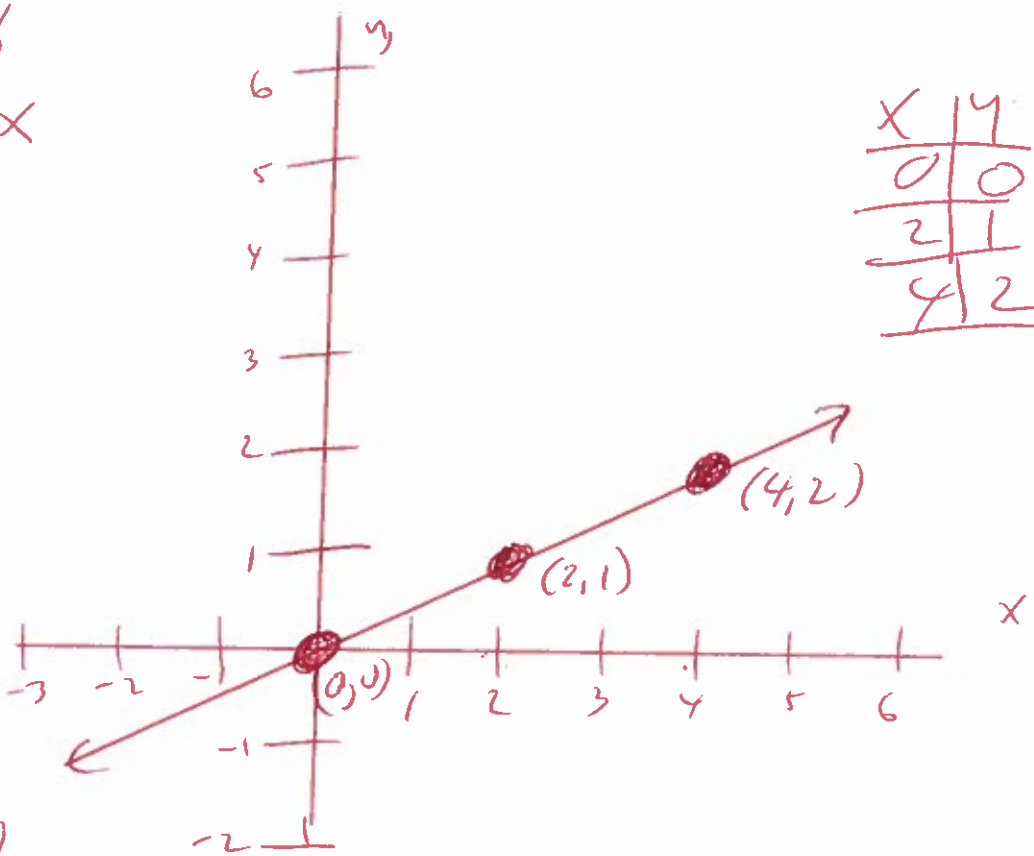
$y = 1$

$y = \frac{1}{2}(4)$

$y = \frac{1}{2}\left(\frac{4}{1}\right)$

$y = \frac{4}{2}$

$y = 2$



x	y
0	0
2	1
4	2

43. graph $y = x + 2$

$y = (0) + 2$

$y = 0 + 2$

$y = 2$

$y = (1) + 2$

$y = 1 + 2$

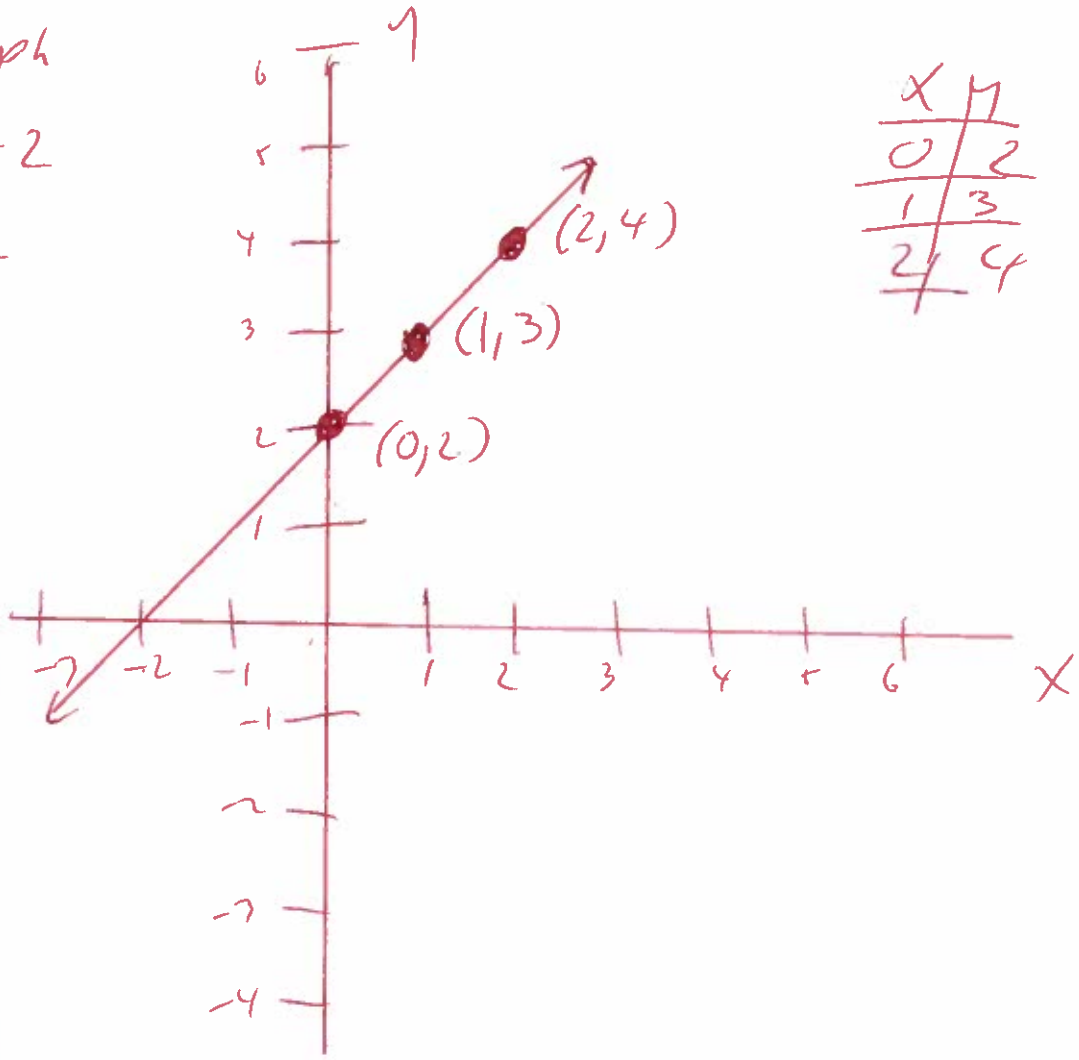
$y = 3$

$y = (2) + 2$

$y = 2 + 2$

$y = 4$

x	y
0	2
1	3
2	4



44. $f(x) = 2x + 3$ find $f(5)$

$f(5) = 2(5) + 3$

$f(5) = 10 + 3$

$f(5) = 13$

(5.) Graph

$f(x) = 2x + 4$

$f(0) = 2(0) + 4$

$f(0) = 0 + 4$

$f(0) = 4$

$f(1) = 2(1) + 4$

$f(1) = 2 + 4$

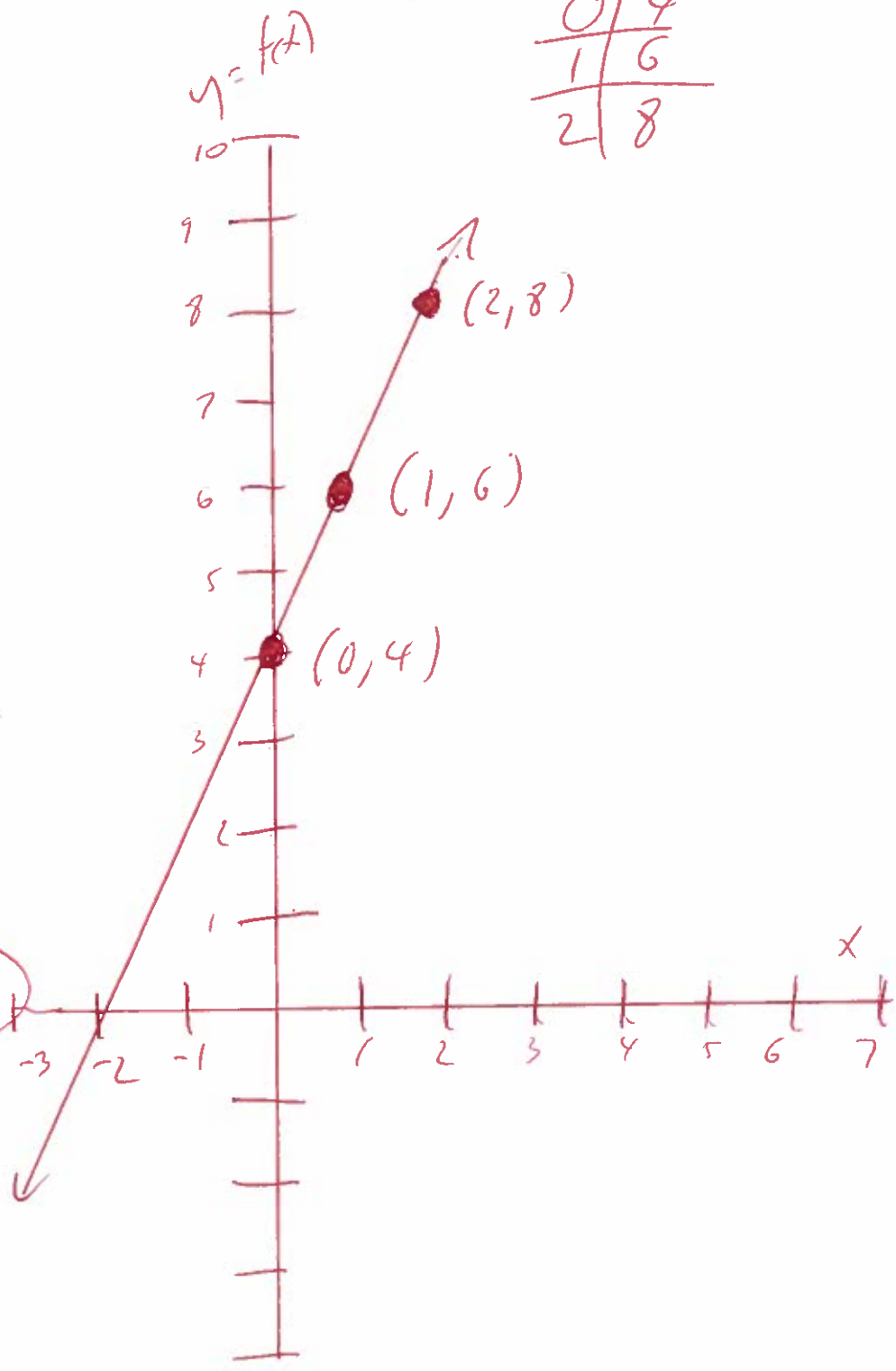
$f(1) = 6$

$f(2) = 2(2) + 4$

$f(2) = 4 + 4$

$f(2) = 8$

x	f(x)
0	4
1	6
2	8



(46.) $f(x) = x^2 + 3x + 2$ Find $f(4)$

$f(4) = (4)^2 + 3(4) + 2$

$f(4) = (4)(4) + 3(4) + 2$

$f(4) = 16 + 12 + 2$

$f(4) = 28 + 2$

$f(4) = 30$

(47.) if $A = 0.9461$, $B = 1.42$, $C = 0.5021$

order from least to greatest

$0.5021 < 0.9461 < 1.42$

OR

$C < A < B$

(48) estimate to the dollar

$3(18.89) + 2(9.98) + 35 =$

$3(19) + 2(10) + 35 =$

$57 + 20 + 35 =$

$77 + 35 =$

$\$112 =$

19 × 3 = 57

57 + 20 = 77

10 × 2 = 20

77 + 35 = 112

(49) Students in a Math class were asked to bring pictures of their grandma. What fraction of the students brought 3 or more pictures?

$$\frac{3+2+1+3}{2+1+3+2+1+3} = \frac{\text{students who brought 3 or more pictures}}{\text{all students}}$$

$$\frac{9}{12} =$$

$$\frac{3(3)}{3(4)} = \frac{3}{4}$$