Jan. 29, 2019
Periods 1,2,4,6

Warm Up - Quiz Lesson 12.1

Class Work -

Examples-
pgs. 337-342 Partner Work

Homework - pg.342, #s 1-4

ADDITIONAL EXAMPLE 1

A The table below shows a relationship between two variables, x and y. Describe a possible situation the table could represent. Describe the independent and dependent variables in this situation.

X	**Independent variable, *x***	1	2	3	4
y	**Dependent variable, *y***	8	16	24	32

(x, y)

Write an equation for this relationship.

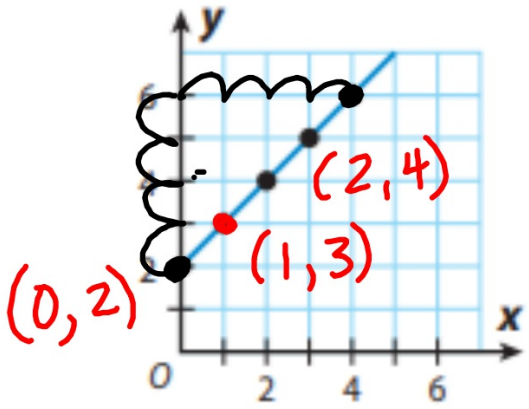
$y = 8x$

y = amt. $ earned

8 = amt. per hour

x = # of hours

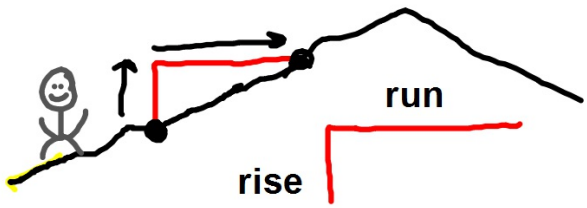
B The graph below shows a relationship between two variables, x and y. Describe a possible situation the graph could represent. Describe the independent and dependent variables.



(Steepness)

m = SLOPE

slope means $\frac{\text{rise}}{\text{run}} = \frac{Y}{X}$



$y = X + 2$

$y = mx + b$

y= mx +b

function (rule) is x + 2

Slope = $\frac{Y}{X}$

Function Table

X	(X+2)	Y	(x, y)
0	0+2	2	(0, 2)
1	1+2	3	(1, 3)
2	2+2	4	(2, 4)

Y= X + 2

KISS

Two types of relationships:

$Y = 4X$
Multiplicative Relationship

$Y = X + 4$
Additive Relationship

(2, 3, 5, 7, 11)

2 · 1 = 2
3 · 1 = 3
5 · 1 = 5
7 · 1 = 7
11 · 1 = 11

Jan. 29, 2019
Period 5

Warm Up - What is a Prime Number?
List the first five Prime Numbers.

Class Work - Prime Factorization video
Lesson 9.2 worksheet - together using white boards

4
(1 · 4, 2 · 2) 1, 2, 4

Prime Number - a number that has only two factors, one and itself.

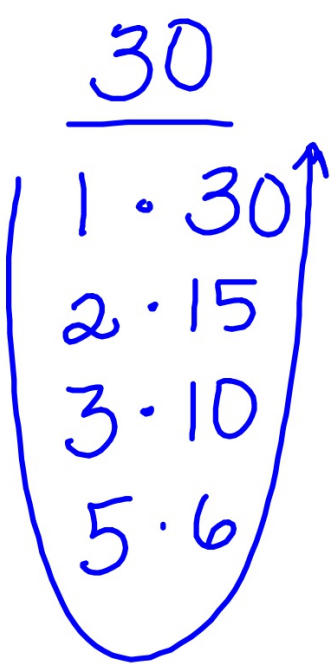
Examples: 2, 3,5,7,11

exponent

$$2^{4} = \underbrace{2 \cdot 2}_{4} \cdot \underbrace{2 \cdot 2}_{4}$$

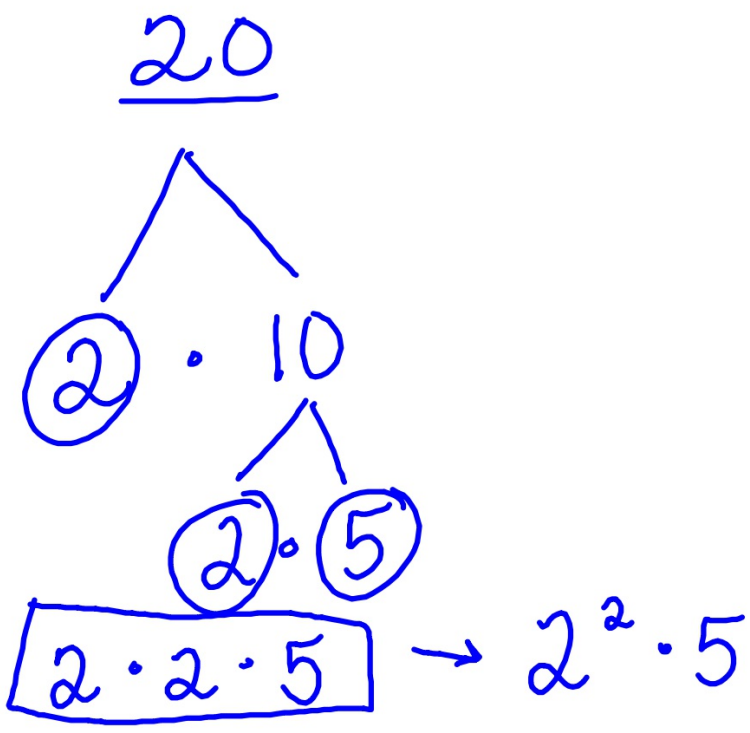
(Base)

$$2^{4} = 16$$



1, 2, 3, 5, 6, 10, 15, 30

Prime Factorization

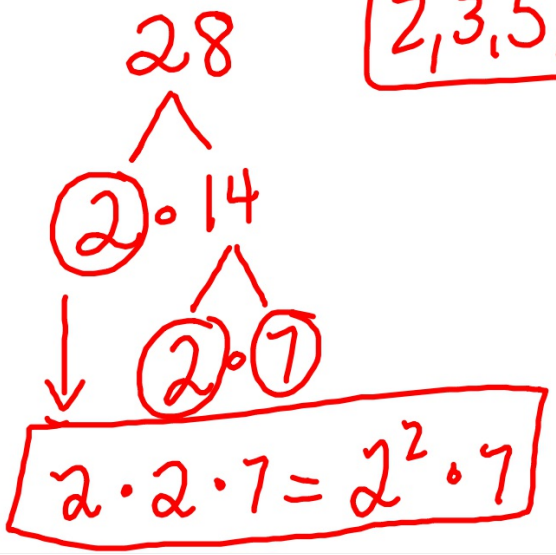


Reteach

1) 28 — 1, 2, 4, 7, 14, 28

$1 \cdot 28$
$2 \cdot 14$
$4 \cdot 7$

5.



2, 3, 5, 7, 11