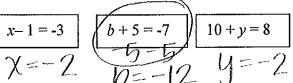
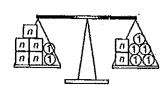
## Semester 1 Exam Review-Part 1

1. Which one Doesn't Belong? Identify the equation that does not have the same solution as the other three. Explain your reasoning.



The model represents the equation x + 3 = 7.

- 2. How can you determine the value of x?
- A Add three beans to each side.
- B\_Subtract seven beans from each side.
- CJSubtract three beans from each side.
- D Add seven beans to each side.
- 3. What is the first step in finding the value of n in this model?



- Divide the number n's on one side by the number on the other side.
- Take away as many n's on one side as there are 1 units on the other side.
- Subtract two 1 units from both sides of the model.
- Divide the number of units on one side by the other side.

4. The goal for solving equations is to find the valve of the variable.

5. To do this we need to 1501010, the variable.

nis we need to 1501010 the variable.

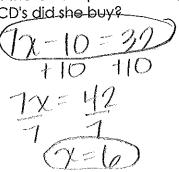
X VSO INVENSE OPERATIONS

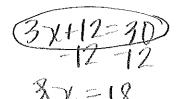
Solve. 25tep: REVERSE order of operations 6. 2x+3=11 2x=8 (x=4) 7.5+4x=105 4x=100 8.32=6x-4Write an equation for each situation and solve (7-20)

9. It costs \$12 at attend a golf clinic at a local pro shop. Buckets of balls for practice cost \$3 each. How many buckets can you buy if you have \$30 to spend?

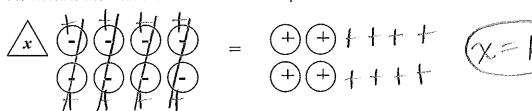
10. Caitlin has a \$10 gift certificate to the music store.

She has chosen a number of CD's from the \$7 bargain bin. If the cost of the CD's is \$32 after the gift card is credited, how many CD's did she buy?



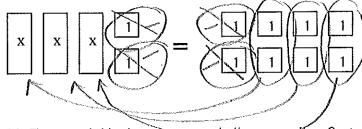


11. What is the value of x in the model represented below?

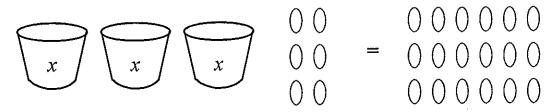


12. The equation 3x + 2 = 8 is modeled below.

What is the solution to the equation? a. x = 2 c. x = 6d. x = -6



13. The model below represents the equation 3x + 6 = 18.



What is the first step in finding the value of x?

- a. Divide the beans evenly among the 3 cups.
- c. Add 6 beans to each side of the model
- model
- b. Add 18 beans to each side of the fd.) Subtract 6 beans from each side of the model

Write an expression or equation to represent the phrase or sentence below.

14. Eight less than n is 28. N-8=2815. n subtracted from -7

- 15. n subtracted from -7 -7-1
- **16.** -5 subtracted from n n-(-5)
- 17. ¼ of n is 15.

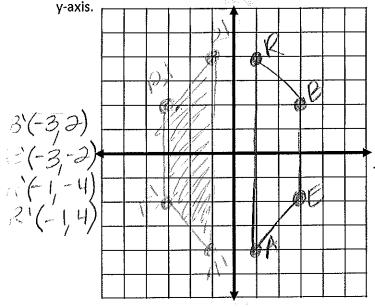
Evaluate each expression if a = 4 and b = 3.

18. 
$$9a-6b$$
19.  $\frac{ab}{2}$ 
20.  $2a^2+5$ 
21.  $a+-7$ 
22.  $b-(-3)$ 
31.  $a+-7$ 
22.  $b-(-3)$ 
31.  $a+-7$ 

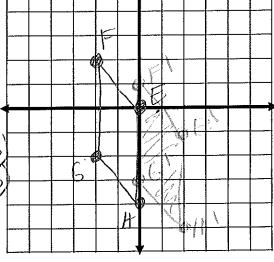
## Semester 1 Exam Review-Part 2

Coordinate Graphing **Evaluating Expressions and Writing Equations** 

1) The vertices of quadrilateral BEAR are B(3, 2), E(3,-2), A (1, -4) and (1,4). Graph B'E'A'R' as a reflection over the 2) Graph parallelogram *EFGH* with vertices E(0,0), F(-2,2), G(-2,-2) and H(0,-4). Translate the figure using the rule (x + 2, y - 1). Label your new figure E'F'G'H'.



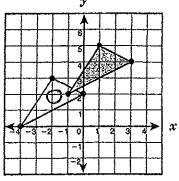
E'(3-1) F'(0,1) G'(0-3) H'(2,-5)



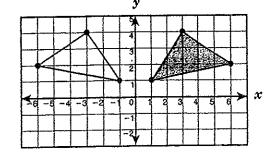
List the vertices of your new image.

List the vertices of your new image.

3.



4.



Transformation: MMS/ation (Slides) Transformation: reflection (Flips)

Movement:  $(\times +3, y + 2)$ 

Movement: Over the y-axis

Write an expression to represent the phrase below.

Evaluate if n = -2 and m = 2.

M = 24

## Semester 1 Exam Review-Part 3

Fraction, Decimal, & Percent Conversions

1)	2 out of e	very 3 students	polled said the	ey had a f	acebook account.
----	------------	-----------------	-----------------	------------	------------------

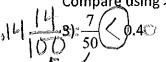
What is that amount written as a decimal and as a percent?

= 312.000 lelo=0/0

2) Choose the decimal that would be between 
$$\frac{1}{8}$$
 and  $\frac{1}{2}$ .

A) 0.12()

Compare using >, <, =.



$$(0) = \frac{3}{15} (0) = 0.60$$
 
$$2(15) = \frac{1}{5} (0) = 0.166$$

$$2\frac{1}{5}$$
 0.166

$$6) \frac{1}{20} = \frac{5}{100} \left( \frac{5^{\circ}}{0.00} \right)$$

Write each fraction or mixed number as a decimal and a percent.

6) 
$$\frac{1}{20} = \frac{5}{100} \begin{pmatrix} 5^{\circ}/0 \\ 6 & 05 \end{pmatrix}$$
 7)  $1\frac{15}{30} = \begin{vmatrix} 1 \\ 2 \end{vmatrix} \begin{pmatrix} 150^{\circ}/0 \\ 6 & 5 \end{vmatrix}$  8)  $\frac{7}{4} = \begin{vmatrix} 3 \\ 4 \end{vmatrix}$ 

$$= \frac{3}{175} \left( \frac{175\%}{1.75} \right)$$

Write each decimal as a fraction or mixed number and a percent. \*\* SA TIT WRITE IT. 9) 0.8 3 (1 - 80%) 10) 0.55 (20 55%) 11) 1.15 (1 MPLIE) 17.

9) 0.8 
$$\frac{4}{5}$$
 of all McDonald's customers order a soda with-their meal.

13) Which pair of numbers are NOT equivalent?

A) 0.4, 
$$\frac{2}{5}$$
, 40%

(B) 0.07, 
$$\frac{7}{10}$$
, 7% C)  $\frac{4}{8}$ , 0.5, 50%

C) 
$$\frac{4}{8}$$
, 0.5, 50%

D) 
$$\frac{6}{100}$$
, 0.06, 6%

14) By 3 o'clock pm on picture day, 65% of the classes had finished taking their yearbook pictures. What fraction of the students had taken their yearbook pictures by 3:00?



15) Order from least to greatest.

$$0.56 \frac{3}{4} / \frac{5}{10}$$

16) Order from greatest to least

$$\frac{2^{\frac{2}{8}}}{2^{\frac{3}{8}}} = \frac{2^{\frac{3}{10}}}{10} = \frac{2^{\frac{3}{10}}}{2^{\frac{3}{10}}} = \frac{2^{\frac{3}{10}}}{2^{\frac{3}10}} = \frac{2^{\frac{3}10}}}{2^{\frac{3}10}} = \frac{2^{\frac{3}10}}}{2^{\frac$$

17) George completed  $\frac{3}{8}$  of his homework before baseball practice

What percent is equivalent to  $\frac{3}{8}$ ?

Semester 1 Exam Revie	w-Part 4	(Car GO)
Semester 1 Exam Revie Decimal Operations $\frac{1}{2} \cdot 9 + 1.2$ 2) $(13.9 + 20.1) \div 0.2 + 7.1$	3) $50 \div \frac{1}{5}$	2,500
4) Sarah bought 3 cookies for \$2.85 and Megan bought 4 cookies	for \$3.20.	75 80
5) Jeffrey bought popcorn for \$2.75 and a soda for \$1.30.Roland	bought candy for \$	3.15 and
lemonade for \$1.25. Who spent more money and how much mode and the spent more money and how much mode and how much mode and how m	ctore for echant Each	noctor needs
Alex is using string to put a border around students council po $\frac{9}{20}$ m of string. How many meters of string will she need to make	3.5posters? Oct.	] (1.575m
7) George purchased 5 spiral notebooks before school started fo notebook cost the same amount, what was the cost per notebook \$\mathcal{A}\circ\mathcal{B}\cir	r \$15.10, not inglud <u>ir</u>	ng tax. If each
8) The perimeter of the track around Jacob's school is $\frac{7}{10}$ miles. Jacob run around the track to meet his go		3.5 miles a day.
(5/aps)	7,13.5,	
9) The table shows the number of minutes Steve used his cell phone each month during a four month period.	7,13,5,	Number of Minutes
9) The table shows the number of minutes Steve used his cell phone each month during a four month period.  Steve pays a monthly fee of \$40 for a 300-minute plan plus \$0.40 for each minute over 300. What is the total amount Steve paid for	e/s/3,5,	
9) The table shows the number of minutes Steve used his cell phone each month during a four month period.  Steve pays a monthly fee of \$40 for a 300-minute plan plus \$0.40	Month	Minutes
9) The table shows the number of minutes Steve used his cell phone each month during a four month period.  Steve pays a monthly fee of \$40 for a 300-minute plan plus \$0.40 for each minute over 300. What is the total amount Steve paid for these four months, not including tax?	Month  January	Minutes 298
9) The table shows the number of minutes Steve used his cell phone each month during a four month period.  Steve pays a monthly fee of \$40 for a 300-minute plan plus \$0.40 for each minute over 300. What is the total amount Steve paid for these four months, not including tax?  A) \$120 B) \$160  10) The average person's stride length, the distance covered	Month  January  February	298 302
9) The table shows the number of minutes Steve used his cell phone each month during a four month period.  Steve pays a monthly fee of \$40 for a 300-minute plan plus \$0.40 for each minute over 300. What is the total amount Steve paid for these four months, not including tax?  A) \$120  B) \$166  C) \$6  D) \$160	Month  January  February  March	298 302 305 15
9) The table shows the number of minutes Steve used his cell phone each month during a four month period.  Steve pays a monthly fee of \$40 for a 300-minute plan plus \$0.40 for each minute over 300. What is the total amount Steve paid for these four months, not including tax?  A) \$120  B) \$166  D) \$160  10) The average person's stride length, the distance covered by one step, is approximately $2\frac{1}{2}$ feet long. How many steps would it take the average person to travel 50.5 feet?	Month  January  February  March	298 302 305 15
9) The table shows the number of minutes Steve used his cell phone each month during a four month period.  Steve pays a monthly fee of \$40 for a 300-minute plan plus \$0.40 for each minute over 300. What is the total amount Steve paid for these four months, not including tax?  A) \$120 B) \$166  D) \$160  10) The average person's stride length, the distance covered by one step, is approximately $2\frac{1}{2}$ feet long. How many steps would it take the average person to travel 50.5 feet?	Month  January February  March  April  JOVE	298 302 305 15