

6a & 6C final practice test**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

Factor the expression using the GCF.

- _____ 1. $8y - 6x$
a. $2(4y - 3x)$ c. $2(4y - 6x)$
b. $2(4y - 6x)$ d. $2y(4 - 3x)$
- _____ 2. A pet sitting service charges \$23 for the first visit and \$19 for each additional visit in a week. If v represents the number of visits in a week, which expression can be used to determine the total charge, in dollars, for v visits?
a. $23v - 19$ c. $23 + 19(v - 1)$
b. $23 + 19v$ d. $23 + 19(v + 1)$
- _____ 3. Which equation is NOT true for all numbers n ?
a. $n + 8 = 8 + n$ c. $n + 0 = n$
b. $n \times 8 = 8 \times n$ d. $n \times 0 = n$

Write a unit rate for the situation.

- _____ 4. \$19.50 for 5 people
a. $\frac{\$3.90}{1 \text{ person}}$ c. $\frac{1 \text{ person}}{\$3.90}$
b. $\frac{\$1}{5 \text{ people}}$ d. $\frac{\$19.50}{1 \text{ person}}$

Write the percent as a fraction or mixed number in simplest form.

- _____ 5. 0.75%
a. $\frac{3}{400}$ c. $\frac{3}{40}$
b. $\frac{3}{4,000}$ d. $\frac{3}{4}$

Find the percent of the number.

- _____ 6. 81% of 78
a. 63.18 c. 65
b. 59.94 d. 14.82

_____ 14. The sum of a number n and 4 is 16.

a. $\frac{n}{4} = 16$

c. $4n = 16$

b. $n - 4 = 16$

d. $n + 4 = 16$

Name the word that matches the definition given.

_____ 15. The variable representing the quantity that can change freely in an equation in two variables

a. inverse operations

d. dependent variable

b. solution of an equation in two variables

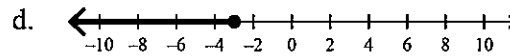
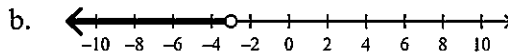
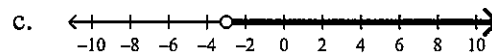
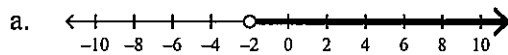
e. graph of an inequality

c. independent variable

f. inequality

Graph the inequality on a number line.

_____ 16. $x > -3$



Write the word sentence as an inequality.

_____ 17. A number a is more than 49.

a. $49 > a$

c. $a > 49$

b. $a \geq 49$

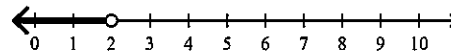
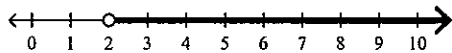
d. $49 > 38$

Solve the inequality. Graph the solution.

_____ 18. $6w \leq 12$

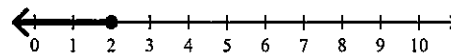
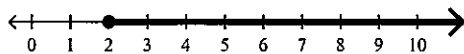
a. $w > 2$;

c. $w < 2$;



b. $w \geq 2$;

d. $w \leq 2$;



Numeric Response

1. A player's score in the game of horseshoes is based on the number of "ringers" r and the numbers of horseshoes closest to the stake c that a player throws. Use the formula below to determine the score of a player who throws 4 ringers and 7 horseshoes closest to the stake.

$$3r + c$$

Write the fraction or mixed number as a percent.

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

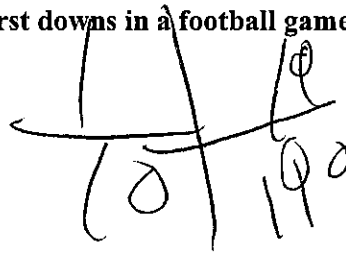
3. $\frac{7}{8}$

Complete the statement. Round to the nearest hundredth if necessary.

4. 3 gal \approx _____ L
5. The ratio of offensive players to defensive players on a football team is 4 : 3. There are total 21 players on the team. How many offensive players are there?

Use the table below that shows the number of first downs in a football game.

Team	Cougars	Gators
Total First Downs	16	20
By rushing	8	4
By passing	6	15
By penalty	2	1



6. What percent of the Cougars' first downs were by passing?
7. What percent of the Gators' first downs were by rushing?
8. For a class trip, the teachers would like to have one adult for every 10 students. There are 190 students on the trip. How many adults should go on the trip?
9. An alligator can run at a speed of 12 feet per second on land. At this rate, how far can it run in 4 seconds?
10. Your heart beats 500 times in 10 minutes. What is your heart rate, in beats per second?