

MAT150.5 Elementary Algebra Test 1 Practice

<http://www.helpyourmath.com/150.5/>

1. In a study of 800 elementary school students, 152 of them indicated they have after school classes. What percent of the students have after school classes?

- a) 19%
- b) 81%
- c) 18%
- d) 526.3%

2. In a study of 250 middle school students, 98 of them indicated they love playing basketball. What percent of the students do not love playing basketball?

- a) 60.8%
- b) 39.2%
- c) 255.1%
- d) 49%

3. There are 125 baskets of fruit on the ground. 18 baskets of them are apples. What percent of the baskets are not apples?

- a) 14.4%
- b) 694.4%
- c) 85.6%
- d) 14.5%

4. In a study of 225 graduated students in Brooklyn College, 25 of them indicated their majors are math. What percent of the graduated students' majors are math?

- a) 88.9%
- b) 12.1%
- c) 11.1%
- d) 900%

5. After switching jobs, Emily's salary was \$82,000. If she was earning \$70,000 at her previous job, what was the percent of increase in her salary?

- a) 17.14%
- b) 14.63%
- c) 14.25%
- d) 17.25%

6. After switching jobs, Ada's salary was \$70,000. If she was earning \$82,000 at her previous job, what was the percent of decrease in her salary?

a) 17.14%

b) 14.63%

c) 14.25%

d) 17.25%

7. After switching jobs, William's salary was \$56,000. If he was earning \$62,000 at his previous job, what was the percent of decrease in his salary?

a. 10.25%

b. 9.68%

c. 10.71%

d. 9.25%

8. After switching jobs, John's salary was \$68,000. If he was earning \$55,000 at his previous job, what was the percent of increase in his salary?

a. 20.51%

b. 23.64%

c. 19.12%

d. 18.12%

9. Solve for X: $2(3X-7)=8X-16$

- a. 1
- b. -1
- c. 15
- d. -15

10. Solve for X: $7X+2=4(2X+3)$

- a. $\frac{2}{3}$
- b. $-\frac{2}{3}$
- c. 10
- d. -10

11. Solve for X: $5(5X-1)=15X+35$

- a. 3
- b. 4
- c. 1
- d. -4

12. Solve for X: $4X-4=7(1-X)$

- a. 1
- b. -1
- c. $\frac{11}{3}$
- d. $-\frac{11}{3}$

13. Solve for m: $k=2a-m$

a. $m=2a-k$

b. $m=2a+k$

c. $m=2k-a$

d. $m=2k+a$

14. Solve for m: $2k=3a+5m$

a. $m=\frac{2k+3a}{5}$

b. $m=\frac{2k-3a}{5}$

c. $m=\frac{2k-5a}{3}$

d. $m=\frac{2k+5a}{3}$

15. Solve for m: $5k=a-4m$

a. $m=\frac{4k+a}{5}$

b. $m=\frac{4k-a}{5}$

c. $m=\frac{5k-a}{4}$

d. $m=\frac{a-5k}{4}$

16. Solve for m: $8k=2a+10m$

a. $m=\frac{2k-8a}{10}$

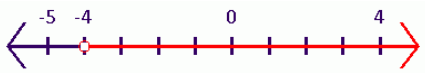
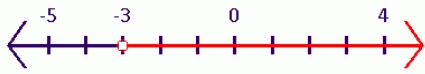
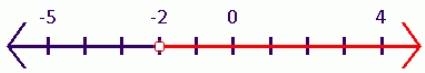
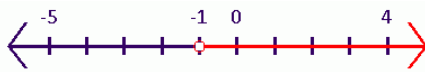
b. $m=\frac{2k+8a}{10}$

c. $m=\frac{8k-2a}{10}$

d. $m=\frac{8k+2a}{10}$


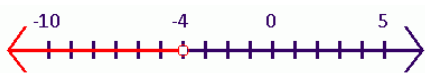
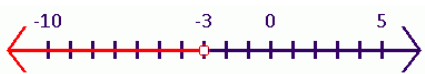

17. Find the graph of the solution to the inequality.

$$-8-2y > -20-5y$$

- a. 
- b. 
- c. 
- d. 





18. Find the graph of the solution to the inequality.

$$20+7y < -20-3y$$

- a. 
- b. 
- c. 
- d. 

19. Find the graph of the solution to the inequality.

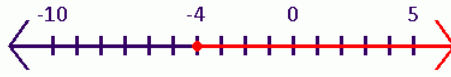
$$6y-15 \leq -1-y$$

- a. 
- b. 
- c. 
- d. 

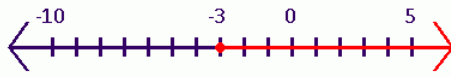
20. Find the graph of the solution to the inequality.

$$2y+15 \geq -6-5y$$

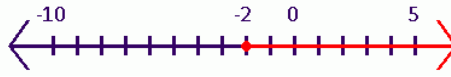
a.



b.



c.



d.



1	2	3	4	5	6	7	8
a	a	c	c	a	b	b	b
9	10	11	12	13	14	15	16
a	d	b	a	a	b	d	c
17	18	19	20				
a	b	c	b				