

AceTest Exercises
Algebra (easy)

1. If $2x+5=13$, what is the value of x ?
 - a. 3
 - b. 4
 - c. 6
 - d. 8

2. Simplify $\frac{3}{4} + \frac{5}{8}$
 - a. $\frac{7}{8}$
 - b. $\frac{1}{8}$
 - c. $\frac{11}{8}$
 - d. $\frac{2}{3}$

3. What is the slope of the line passing through (1,2) and (4,8)
 - a. 2
 - b. $\frac{3}{2}$
 - c. $\frac{8}{3}$
 - d. 6

4. If $y = 3x^2$, what is y when $x = -2$
 - a. -12
 - b. 12
 - c. 24
 - d. -24

5. A rectangle has a length of 10 and a width of 6. What is its area?
 - a. 16
 - b. 60
 - c. 32
 - d. 100

6. Simplify $(2^3)(2^4)$
 - a. 2^7
 - b. 2^{12}
 - c. 2^{11}
 - d. 2

7. What is 25% of 80?
 - a. 10
 - b. 15
 - c. 20
 - d. 25

8. If $3(x-1) = 12$, what is the value of x ?
- 3
 - 4
 - 5
 - 6
9. Which of the following numbers is prime?
- 15
 - 21
 - 17
 - 18
10. Solve for $x/5=7$
- 2
 - 12
 - 35
 - 17
11. What is the median of the set of numbers 3,7,9,12,15
- 7
 - 9
 - 10
 - 12
12. In a right triangle with legs of length 3 and 4, the hypotenuse is
- 5
 - 6
 - 7
 - $\sqrt{10}$
13. Simplify $\sqrt{49}$
- 7
 - 7
 - 14
 - + - 7
14. If $f(x) = x+5$ what is the value of $f(-3)$
- 2
 - 8
 - 8
 - 2
15. A store sells pencils for 0.30 bucks each. How many pencils can you buy with 3 bucks
- 8
 - 9
 - 10

d. 11

16. What is the value of $5!$

- a. 60
- b. 100
- c. 120
- d. 720

17. simplify $8x^0+2$

- a. 10
- b. $8x+2$
- c. $1+2$
- d. $8+2$

18. The point $(-2,5)$ is in which quadrant?

- a. I
- b. II
- c. III
- d. IV

19. Solve for $|x-4|=3$

- a. $x=1$ or 7
- b. $x=4$ or 3
- c. $x=-1$ or 7
- d. $x= 1$ or 7

20. If a circle has a radius of 3, its circumference is

- a. 3π
- b. 6π
- c. 9π
- d. 18π

21. simplify $(4x^2)/(2x)$

- a. $2x$
- b. $2x^0$
- c. $2x^3$
- d. x

22. If $x^2-9=0$, then $x=?$

- a. 3 only
- b. -3 only
- c. 3 or -3
- d. 0

23. A bag contains 3 red and 2 blue marbles. The probability of drawing a blue marble is

- a. $2/3$

- b. $\frac{3}{5}$
- c. $\frac{2}{5}$
- d. 0.5

24. What is the y-intercept of the line $y=-2x+7$

- a. -2
- b. 0
- c. 7
- d. 0,-2

25. Simplify $6-3(2+1)$

- a. -3
- b. 0
- c. 3
- d. 9

26. If $5x+2=2x+11$, solve for x

- a. 1
- b. 3
- c. 5
- d. 6

27. What is the area of a circle with a diameter of 8

- a. 4π
- b. 8π
- c. 16π
- d. 64π

28. Convert 0.75 to a fraction

- a. $\frac{3}{4}$
- b. $\frac{7}{10}$
- c. $\frac{75}{100}$
- d. $\frac{14}{75}$

29. Solve $2x^2=18$

- a. $x=+-3$
- b. $x=3$
- c. $x=+-6$
- d. $x=9$

30. If the average of 4,6, and x is 8, what is the value of x?

- a. 12
- b. 14
- c. 8
- d. 10

31. What is the next term in the sequence 2,4,8,16
- a. 18
 - b. 24
 - c. 32
 - d. 64
32. A triangle's area is in a 2:3:4 ratio. What is the largest angle
- a. 40
 - b. 60
 - c. 80
 - d. 100
33. Solve for $4(x+1)=20$
- a. 3
 - b. 4
 - c. 5
 - d. 6
34. 34 simplify $9/12$
- a. $\frac{3}{4}$
 - b. $\frac{2}{3}$
 - c. $\frac{3}{2}$
 - d. $\frac{9}{4}$
35. What is the value of 0^5
- a. 0
 - b. 1
 - c. 5
 - d. Undefined
36. If two angles are supplementary and one is 70, the other one is
- a. 20
 - b. 110
 - c. 180
 - d. 250
37. Simplify 7^2-5^2
- a. 12
 - b. 24
 - c. 0
 - d. -12
38. The coordinate midpoint of (2,-1) and (6,3) is
- a. 4,1
 - b. 8,2
 - c. 3,1

d. 2,3

39. If $x+y=10$ and $x-y=2$, what is the value of x

a. 6

b. 4

c. 8

d. 2

40. A cube has a side of 4. What is its volume

a. 8

b. 16

c. 64

d. 256

Answer key

1. a

2. c

3. b

4. d

5. b

6. a

7. c

8. b

9. c

10. c

11. b

12. a

13. a

14. b

15. c

16. c

17. a

18. b

19. a

20. b

21. a

22. c

23. c

24. c

25. a

26. b

27. c

28. a

29. a

30. a

31. c

- 32. d
- 33. c
- 34. a
- 35. a
- 36. b
- 37. a
- 38. a
- 39. a
- 40. c