



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

Math GED Practice Test

This test includes 50 questions. Math Formula Sheet->page 10
Correct answers with explanations ->pages 11-12.

GED PRACTICE QUESTIONS:

1. Solve: $5 + 9 \times 3 - 8$

- A. 34
- B. -70
- C. -40
- D. 24
- E. Need parentheses to compute.

2. Which is smallest: 9×6 -or- 8×7 -or- 5×11 ?

- A. 9×6
- B. 8×7
- C. A) and B) are equally smallest.
- D. 5×11
- E. Too close to tell.

3. What is the vehicle's speed when traveling 30 miles in 30 minutes?

- A. 1 mile per hour (mph)
- B. 30 mph
- C. 60 mph
- D. a mile a minute
- E. Both C) and D) are correct answers

4. Sam's Bakery makes 3000 donuts in 6 hours, while Annie bakes 4800 donuts per 10-hr day.

- A. Annie is more efficient baking 1800 more donuts.-3
- B. Sam is more efficient, since he take 4 fewer hours.
- C. Sam is more efficient by 20 donuts / hr.
- D. Annie is more efficient by 20 donuts / hr.
- E. Both bake at nearly the same rate.



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

5. Solve: $36 / 9 - 3 \times 2$

- A. 12
- B. 2
- C. -2
- D. 3
- E. Need parentheses to compute.

6. Find the missing factor: $8 \times 3 = 6 \times ?$

- A. 5
- B. 18
- C. 4
- D. 16
- E. 11

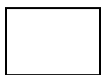
7. How long does a 220-mile trip take moving at 50 miles per hour (mph)?

- A. 4.0 hours
- B. 4.5 hours
- C. 44 minutes
- D. 4 hours, 24 minutes

8. If the average daily high temperature for the week was 28C, find the missing temperature from the following list: 25C, 26C, 31C, 30C, 29C, 24C, ? C

- A. 28C
- B. 31C
- C. 27C
- D. 21C

9. A cubic box has a surface area of 600 sq.in. What is the volume of the box?





Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

10. If the side of a square is $x + 5$, and the square's area is 225, what is x ?

- A. $x = 5$
- B. $x = 10$
- C. $x = 15$
- D. $x = 25$

11. Bob is 80 miles ahead moving at 50 mph, and Joe is traveling at 70 mph. How long for Joe to catch Bob?

- A. 1.6 hr
- B. 1.1 hr
- C. 2.7 hr
- D. 4.0 hr

12. Which line passes through points $(-2, 2)$ and $(4, -10)$?

- A. $y = -5x - 8$
- B. $y = -5x + 10$
- C. $y = 6x + 14$
- D. $y = -2x - 2$

13. Simplify $90/105$

- A. $16/21$
- B. $32/42$
- C. $6/7$
- D. $36/42$

14. Find the distance between -2.8 and 7.3 on a number line.

- A. 4.5
- B. 5.5
- C. 10.1
- D. 9.5



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

15. Find the area of a hexagon whose side length is 5.

- A. 25
- B. 30
- C. 50
- D. 65

16. What are the sides of a rectangle whose area is 60?

- A. 30×30
- B. 15×15
- C. 20×30
- D. 5×12

17. Which triangle's sides can form a right triangle?

- A. 5,6,11
- B. 4,5,6
- C. 3,4,5
- D. 2,3,4

18. Jane has 11 coins totaling \$1.65 in quarters, dimes, and nickels. Create the equations.

- A. $q + d + n = 165$
- B. $q + d + n = 11$ and $25q + 10d + 5n = 165$
- C. $25q + 10d + 5n = 165$
- D. $q + d + n = 40$

19. Solve $x^2 + 3x - 4 = 0$.

- A. $x = 1$
- B. $x = 4$
- C. $x = 3, -4$
- D. $x = 1, -4$

20. Solve $x^2 - 10x + 12 = -13$.

- A. $x = 5$
- B. $x = -5$
- C. $x = -5, 5$



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

D. $x = 10, 12$

21. Find the slope of $6x = 12 - 3y$.

- A. 6
- B. -6
- C. 3
- D. -2

22. Which 15-minute mileage markers indicate a car traveling 60 mph?

- A. 10, 20, 30
- B. 15, 30, 45
- C. 20, 40, 60
- D. 20, 30, 40

23. What is the line slope linking these points: (6,10)(2,6)(-1,3)(-3,1)?

- A. 4
- B. -4
- C. -2
- D. 1

24. Which line is parallel to $3y = 4 - 6x$?

- A. $y = 2x - 4$
- B. $y = 2x + 4$
- C. $y = -6x + 4$
- D. $y = -2x + 425,746$

25. Which set of points CANNOT form a function?

- A. [0,1][2,3][-2,-3][-1,3]
- B. [1,0][2,0][3,0][4,0]
- C. [0,0][0,1][1,2][2,3]
- D. [1,1][2,2][3,3][4,2][5,1]

26. When is $3x - 4 > 2$?

- A. $x > 2/3$



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

- B. $x < 2/3$
- C. $x < -2$
- D. $x > 2$

27. Solve $\sqrt{x+4} = 5$

- A. $x = 1$
- B. $x = 21$
- C. $x = -29, 21$
- D. $x = -29$

28. What is the area of a circle whose circumference is 6π ?

- A. 9π
- B. 36π
- C. 9
- D. 36

29. 28 – A 4-inch high can has a volume of 100π cu.in. What is the can's diameter?

- A. 10 in.
- B. 5 in.
- C. 25π in.
- D. 5π in.

30. What is the square root of four cubed?

- A. 2
- B. 4
- C. 8
- D. 16

31. What is $2/3$ of $5/8$?

- A. $7/11$
- B. $3/5$
- C. $10/11$
- D. $5/12$



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

32. On a map where 2 inches = 5 miles, how far is 4.4 inches?

- A. 4.4 miles
- B. 8.8 miles
- C. 22 miles
- D. 11 miles

33. Where is $f(x) = \sqrt{x+5}/(x-5)$ undefined?

- A. $x = 5, x < -5$
- B. $x = -5$
- C. $x < -5$
- D. $x = 5$

34. What is the square root 125 plus the square root of 25?

- A. square root of 150
- B. $5(1 + \sqrt{5})$
- C. 10
- D. $5\sqrt{6}$

35. A right triangle has legs of $x+5$ and $2x-4$. What is the triangle's area in terms of 'x'?

- A. 7 and $7/15$
- B. 3 and $3/15$
- C. 3 and $1/9$
- D. 3 and $13/9$
- E. 4 and $4/9$

36. Solve $-2x^2 + 6x - 20 = 0$.

- A. $x = -5$
- B. $x = 2$
- C. $x = -2, 5$
- D. no real solution

37. Product demand is $Q = 100 - 10P$. Supply is $Q = 5P + 25$. Where do the lines cross?

- A. $P = 10, Q = 0$
- B. $P = 10, Q = 75$



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

- C. $P = 15, Q = -50$
- D. $P = 5, Q = 50$

38. Which is bigger: $y = x$ or $y = -x^2$?

- A. $-x^2$ is always smaller
- B. $y = x$ is always bigger
- C. $y = x$ is bigger only for x in between 0 and 1
- D. $-x^2$ is bigger only for x in between 0 and -1

39. Which line of slope $m = 3$ passes through $(-1, 1)$?

- A. $y = -1 - 2x$
- B. $y = 4 + 3x$
- C. $y = 3x - 4$
- D. $y = -2 - 3x$

40. What is the peak point for $y = -3x^2 + 6x - 2$?

- A. $(1, 1)$
- B. $(-1, -11)$
- C. $(2, -2)$
- D. $(0, -2)$

41. In what direction does the graph of $x = 5$ run?

- A. northeast
- B. southeast
- C. due east
- D. due north

42. Where do $y = 2x + 5$ and $8x - 4y = 100$ intersect?

- A. $(10, -5)$
- B. $(10, 25)$
- C. $(5, -15)$
- D. no solution

43. Simplify $5/10$

- A. $1/5$



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

- B. $\frac{2}{3}$
- C. $\frac{2}{4}$
- D. $\frac{1}{2}$

44. Jenny has five coins totaling 65 cents in quarters and nickels. Create two equations.

- A. $n + q = 30$ and $n + q = 65$
- B. $n + q = 30$ and $5n + 25q = 65$
- C. $5n + 25q = 5$ and $n + q = 65$
- D. $n + q = 5$ and $5n + 25q = 65$

45. Factor $2x^2 + 3x - 5$.

- A. $[2x - 5] [x + 1]$
- B. $[2x + 5] [x - 1]$
- C. $[2x - 5] [x - 1]$
- D. $[2x + 5] [x + 1]$

46. Which parabola given below peaks at (0,1) and passes through (1,0)?

- A. $y = 1 - x^2$
- B. $y = x^2 + 1$
- C. $y = x^2 - 1$
- D. $y = 2x^2 - 2$

47. What is the probability of four consecutive coin tosses each being 'heads'?

- A. $\frac{1}{4}$
- B. $\frac{1}{8}$
- C. $\frac{1}{16}$
- D. $\frac{1}{2}$

48. How many possible outfit combinations come from 10 shirts, two slacks, and five ties?

- A. 17
- B. 25
- C. 100
- D. 20

49. What is the absolute distance between -4.8 and -9.5 on the number line?



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

- A. -14.3
- B. 14.3
- C. -4.7
- D. 4.7

50. The ratio of men to women in New York is 3:4. What is the fraction of men in NYC?

- A. $\frac{3}{4}$
- B. $\frac{1}{4}$
- C. $\frac{1}{3}$
- D. $\frac{3}{7}$



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

Mathematics

FORMULAS

AREA of a:

square	Area = side ²
rectangle	Area = length × width
parallelogram	Area = base × height
triangle	Area = $\frac{1}{2}$ × base × height
trapezoid	Area = $\frac{1}{2}$ × (base ₁ + base ₂) × height
circle	Area = π × radius ² ; π is approximately equal to 3.14.

PERIMETER of a:

square	Perimeter = 4 × side
rectangle	Perimeter = 2 × length + 2 × width
triangle	Perimeter = side ₁ + side ₂ + side ₃

CIRCUMFERENCE of a circle

Circumference = π × diameter; π is approximately equal to 3.14.

VOLUME of a:

cube	Volume = edge ³
rectangular solid	Volume = length × width × height
square pyramid	Volume = $\frac{1}{3}$ × (base edge) ² × height
cylinder	Volume = π × radius ² × height; π is approximately equal to 3.14.
cone	Volume = $\frac{1}{3}$ × π × radius ² × height; π is approximately equal to 3.14.

COORDINATE GEOMETRY

distance between points = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$;
(x_1 , y_1) and (x_2 , y_2) are two points in a plane.
slope of a line = $\frac{y_2 - y_1}{x_2 - x_1}$; (x_1 , y_1) and (x_2 , y_2) are two points on the line.

PYTHAGOREAN RELATIONSHIP

$a^2 + b^2 = c^2$; a and b are legs and c the hypotenuse of a right triangle.

MEASURES OF CENTRAL TENDENCY

mean = $\frac{x_1 + x_2 + \dots + x_n}{n}$, where the x 's are the values for which a mean is desired, and n is the total number of values for x .

median = the middle value of an odd number of ordered scores, and halfway between the two middle values of an even number of ordered scores.

SIMPLE INTEREST

interest = principal × rate × time

DISTANCE

distance = rate × time

TOTAL COST

total cost = (number of units) × (price per unit)



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

ANSWERS

1. **Answer D:** Think 'PEMDAS': no Parenthesis, no Exponent. ==> Multiply 9×3 first.
2. **Answer A:** Since 9, 18, 27, 36, 45, 54 < $5 \times 11 = 55$ < 8,16,24,32,40,48,56
3. **Answer E:** Since speed is distance over time, 30 mi / 30 min = 1 mile per minute, 60 mph.
4. **Answer C:** Since Sam's dph is 3000 donuts / 6 hr = 500 dph, with Annie at 480 donuts / hr.
5. **Answer C:** Think 'PEMDAS': no Parenthesis, no Exponent. Compute $36 / 9$ and 3×2 first.
6. **Answer C:** $8 \times 3 = 24$, this equals 6×4 .
7. **Answer D:** 4 hr, 24 min – $220\text{m} / 50\text{mph} = 4.4$ hours, and 0.4 hours $\times 60\text{min/hr}$ is 24 min
8. **Answer B:** 31C. Cumulative offset from average 28C needs to be zero. $-3 -2 +3 +2 +1 -4 = -3$
==> missing temperature needs to add +3, and 31C does that
9. **Answer:** 1000 cu.in. – cube has six face areas of 100 sq.in., a 10-in. side, and $V = 10(10)10$
10. **Answer B:** $x = 10$, since $A = [x+5] [x+5] = 225$ or $15[15]$, then $x+5 = 15$, making $x = 10$
11. **Answer D:** 4.0 hr – Joe's extra speed of 20 mph needs 4 hours to close the 80-mile gap
12. **Answer D:** $y = -2x - 2$, since slope's 'rise over run' is: $-10 - 2$ over $4 - (-2)$ or $-12/6$ or -2
13. **Answer C:** $6/7$ – doubling gives $180/210$... $18/21$... factoring by 3 gives $6/7$
14. **Answer D:** 10.1 – think 3 degrees below zero and 7 degrees above zero for a 10-degree rise
15. **Answer D:** 65 – since hex is a bit smaller than a circle area of $\pi [5][5]$ or about 75
16. **Answer D:** 5×12 , since Area = side \times side, and only 5×12 is 60
17. **Answer C:** 3, 4, 5 since $3*3 + 4*4 = 5*5$ or $9 + 16 = 25$
18. **Answer B:** $q + d + n = 11$ and $25q + 10d + 5n = 165$ for both coin total and value total.
19. **Answer D:** $x = 1, -4$ since factoring gives $[x+4][x-1] = 0$ or by using quadratic formula
20. **Answer A:** $x = 5$ since $[x-5] [x-5] = 0$ and quadratic formula shows $b^2 - 4ac = 0$ for one root
21. **Answer E:** -2 [0,4] to [1,2] 'rise over run' slope is $2-4 / 1-0 = -2$
22. **Answer B:** 15, 30, 45 since 60 mph is 'a mile a minute' or 15 miles per 15 minutes



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

23. **Answer D:** 1 since sketching the points shows a 'rise over run' of 1
24. **Answer D:** $y = -2x + 425,746$ since the given line is $y = -2x + 4/3$ and slope $m = -2$
25. **Answer C:** $[0,0][0,1]$ since $x=0$ has TWO y 's of 0 and 1
26. **Answer E:** $x > 2$ since $3x > 6$ and $x > 2$
27. **Answer B:** $x = 21$ since squaring both sides gives $x+4 = 5*5$ or $x = 25 - 4$
28. **Answer A:** 9π since $C = 2\pi*r$, then $r = 3$... $A = \pi*r*r = \pi[3]3$ or 9π
29. **Answer A:** 10 in. since $V = \pi*r*r*rh$, then $r*r = 25$, making $r = 5$, and diameter is $2r = 10$ in.
30. **Answer C:** 8 since $\sqrt{4*4*4}$ is $2*2*2$ or 8
31. **Answer D:** $5/12$ by simply multiplying $[2/3][5/8] = [1/3][5/4] = 5/12$
32. **Answer D:** 11 miles since same scaling gives 4 in. per 10 mi., and 4.4" is 10% more to 11 mi.
33. **Answer A:** $x = 5$, $x < -5$ $x=5$ means dividing by zero. $x = -6$ means taking $\sqrt{-1}$.
34. **Answer B:** $5(1 + \sqrt{5})$ since $\sqrt{25}$ is 5, and $\sqrt{5*5*5}$ is $5\sqrt{5}$, totaling $5 + 5\sqrt{5}$
35. **Answer C:** $x^2 + 3x - 10$ Since triangle Area = $bh/2$, multiply $[x+5][2x-4]$ and take half.
36. **Answer E:** no real solution
- $-2x^2$ opens the parabola downward, and peak at $x = -b/2a$ or $x = 6/4$ gives $y = -2[9/4] + 6[3/2] - 20 = -9/2 + 9 - 20 < 0$. A downward opening parabola with a peak value less than zero can never equal zero ==> no real solution
37. **Answer D:** $P = 5$, $Q = 50$ - demand equals supply at crossing, and $100 - 10P = 5P + 25$
38. **Answer D:** $-x^2$ is bigger only for x in between 0 and -1 as seen by sketching the functions
39. **Answer B:** $y = 4 + 3x$ since $m = 3$ needs a '+3x' term, and (-1,1) works for option (b)
40. **Answer A:** (1, 1) since extreme occurs at $x = -b/2a = -6/-6 = 1$, and parabola opens down
41. **Answer D:** due north since $x = 5$ is a vertical line
42. **Answer E:** no solution, since different lines with similar slope [$m = 2$] never touch
43. **Answer D:** Divide both 5 and 10 by 5. $5/10 = 1/2$
44. **Answer E:** $n + q = 5$ and $5n + 25q = 65$ with nickel 'n' worth 5 cents and quarter q, 25 cents



Check also our free GED Programs that include video lessons and short GED practice tests->

www.gedeasy.com

45. **Answer B:** $[2x + 5] [x - 1]$ since factors must have opposite signs, and $5x - 2x$ gives '+3x'

46. **Answer A:** $y = 1 - x^2 \Rightarrow$ 'peak' means opening down with a '-x²' term, and (1,0) plots in [a]

47. **Answer C:** $1/16$ since $P = (1/2)^4 = (1/2)(1/2)(1/2)(1/2)$

48. **Answer C:** 100 since 10 shirts x 2 slacks means 20 combos with one tie and 100 with 5 ties

49. **Answer D:** 4.7 since $| -4.8 - [-9.5] | = | -4.8 + 9.5 | = 9.5 - 4.8 = 4.7$, and absolutes are +

50. **Answer E:** $3/7$ since the total of 3M and 4W is 7, and men comprise 3 of the 7