

GED Math Foundation Worksheet

8 original questions, working space and separate answer explanations. Version 2026-10-27.

Scope

Mathematical Reasoning foundations.

This is an untimed foundation study sample, not an official examination or complete mock test. Author-reviewed learning materials; independent educator review and learner calibration remain pending.

How to use this worksheet

Work through the questions before opening the answer section. Write your calculation or the reason for your choice. After checking the explanation, return to the linked lesson for any unfamiliar distinction.

<https://openexam.site/exams/ged-math/worksheets/>

QUESTION 1 / Numbers that stay in balance

A repair uses $\frac{2}{6}$ meter of wire and another $\frac{3}{4}$ meter. What total length, in meters, is used?

- A. $\frac{13}{12}$
- B. $\frac{1}{2}$
- C. $\frac{1}{4}$
- D. $\frac{1}{3}$

Working / reasoning:

Item ged-fraction-sum-1 | Lesson: <https://openexam.site/exams/ged-math/learn/number/>

QUESTION 2 / Translate a situation before calculating

A workshop estimates supply cost with $C = 4n + 3m$. If $n = 4$ and $m = 5$, what is C ?

- A. 21
- B. 240
- C. 32
- D. 31

Working / reasoning:

Item ged-substitution-2 | Lesson: <https://openexam.site/exams/ged-math/learn/expressions/>

QUESTION 3 / Read a relationship in a table or rule

A service follows a linear cost rule. It charges \$32 for 2 visits and \$44 for 5 visits. What is the fixed charge at zero visits?

- A. 40
- B. 4
- C. 32
- D. 24

Working / reasoning:

Item ged-fixed-charge-3 | Lesson: <https://openexam.site/exams/ged-math/learn/functions/>

QUESTION 4 / Measure shapes by breaking them apart

A triangular sign has base 16 inches and perpendicular height 9 inches. What is its area in square inches?

Your answer: _____

Working / reasoning:

Item ged-triangle-area-4 | Lesson: <https://openexam.site/exams/ged-math/learn/measure/>

QUESTION 5 / Rates, recipes and unit labels

A pack of 9 replacement filters costs \$27. At the same unit price, what do 12 filters cost in dollars?

- A. 36
- B. 4
- C. 30
- D. 27

Working / reasoning:

Item ged-unit-price-5 | Lesson: <https://openexam.site/exams/ged-math/learn/rates/>

QUESTION 6 / Find the unknown in a practical equation

A repair bill is \$53, including an \$18 visit fee and \$7 per hour. How many hours were billed?

- A. 71/7
- B. 5
- C. 53/7

D. 35

Working / reasoning:

Item ged-hourly-invoice-2 | Lesson: <https://openexam.site/exams/ged-math/learn/equations/>

QUESTION 7 / Two conditions, one shared solution

A show sells 16 tickets: adult tickets at \$8 and child tickets at \$5. Revenue is \$101. How many adult tickets were sold?

A. 12

B. 16

C. 7

D. 9

Working / reasoning:

Item ged-ticket-count-3 | Lesson: <https://openexam.site/exams/ged-math/learn/systems/>

QUESTION 8 / Summaries that answer the actual question

The sorted waiting times are 5, 7, 9, 12, 14, and 16 minutes. What is the median?

Your answer: _____

Working / reasoning:

Item ged-even-median-4 | Lesson: <https://openexam.site/exams/ged-math/learn/data/>

GED Math: Answers & Explanations

Compare the method or rule as well as the final answer. These explanations are study aids, not official scoring guidance.

QUESTION 1 / ged-fraction-sum-1

Answer: 13/12

1. Both measurements use meters, so add the fractions.
2. Use twelfths: $4/12 + 9/12$.
3. The requested value is 13/12. Check its units and meaning against the original question.

QUESTION 2 / ged-substitution-2

Answer: 31

1. Replace n and m with their stated values.
2. Calculate each product before combining the costs.
3. The requested value is 31. Check its units and meaning against the original question.

QUESTION 3 / ged-fixed-charge-3

Answer: 24

1. The charge increases by \$12 over three visits, or \$4 per visit.
2. Move back two visits from the first observation to reach zero visits.
3. The requested value is 24. Check its units and meaning against the original question.

QUESTION 4 / ged-triangle-area-4

Answer: 72

1. Use one half times the base times its perpendicular height.
2. The slanted edge is not a substitute for the perpendicular height.
3. The requested value is 72. Check its units and meaning against the original question.

QUESTION 5 / ged-unit-price-5

Answer: 36

1. Divide pack cost by its filter count to find dollars per filter.
2. Multiply the unit price by the new number of filters.
3. The requested value is 36. Check its units and meaning against the original question.

QUESTION 6 / ged-hourly-invoice-2

Answer: 5

1. Subtract the fixed visit fee from the total.
2. Divide the remaining labor charge by dollars per hour.
3. The requested value is 5. Check its units and meaning against the original question.

QUESTION 7 / ged-ticket-count-3

Answer: 7

1. If every ticket cost \$5, calculate the baseline revenue.
2. Each adult ticket adds \$3 above that baseline; divide the extra revenue by 3.
3. The requested value is 7. Check its units and meaning against the original question.

QUESTION 8 / ged-even-median-4

Answer: $21/2$

1. There are six values, so the middle lies between positions three and four.
2. Average those two central values, not the two endpoints.
3. The requested value is $21/2$. Check its units and meaning against the original question.

References and scope notes

The questions and teaching explanations are original catalog materials. References support the selected concepts; they are not endorsements or a reproduced official examination bank.

GED Mathematical Reasoning overview

<https://www.ged.com/about-test/test-subjects/math.html>

Siyavula Grade 10 mathematics foundation reference

<https://www.siyavula.com/read>

Foundation pilot, not full GED Mathematical Reasoning coverage.

Other GED subjects are not taught in this workspace.

Practice scores do not predict official passing outcomes.

Dates, prices and eligibility must be confirmed for the testing jurisdiction.

Independent educator review pending.

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