One-Degree Angles

Spot mistakes, reason, and work backward

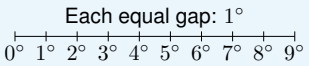
Name _____ **Date** _____ **Score** _____ / 6

QUICK REVIEW

One degree, written $1°$, is one of 360 equal small turns around a point. An angle of $7°$ contains 7 one-degree turns. Count gaps, not tick marks: ticks 0 through 7 make 7 gaps, not 8.

Worked example

An angle covers 9 one-degree turns. Find its measure and the count of gaps.



1. Each small turn measures $1°$.
2. $9 \times 1° = 9°$.
3. The marks 0 through 9 enclose 9 gaps.
Answer: 9 degrees.

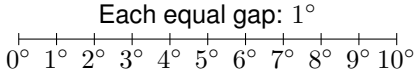
Practice Problems

Show your thinking.

1. Mia divides a $60°$ arc into 30 equal turns and calls each turn $1°$. Find the actual measure of each turn.

2. The angle is $27°$. Find the missing count in $\square \times 1° = 27°$.

3. On the magnified scale, count the one-degree gaps from $3°$ to $10°$.



4. A drawing shows 11 tick marks including both endpoints, with $1°$ between neighbors. Find the angle.

5. Explain why increasing a $34°$ opening by one one-degree unit makes $35°$, not $340°$.

6. A camera turns $1°$ per click. How many clicks make a right-angle turn?

Answer Key

1. $2°$ each.
2. 27.
3. 7 gaps; $7°$.
4. $10°$.
5. One more degree gives $35°$.
6. 90 clicks.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. If each were $1°$, the total would be only $30°$.
2. Divide the actual total: $60 \div 30 = 2°$ per turn.
3. Check $30 \times 2 = 60°$.

Problem 2

1. The unknown counts equal one-degree units.
2. $27 \div 1 = 27$ units.
3. $27 \times 1° = 27°$ verifies it.

Problem 3

1. The first endpoint is at tick 3.
2. The last endpoint is at tick 10.
3. $10 - 3 = 7$ one-degree intervals lie between them.

Problem 4

1. Between 11 ordered marks there are $11 - 1 = 10$ gaps.
2. Each gap measures $1°$.
3. $10 \times 1 = 10°$ is the measure.

Problem 5

1. The original opening has 34 one-degree units.
2. Add 1 more: $34 + 1 = 35$ units.
3. $340°$ would contain ten times 34 units, a different operation.

Problem 6

1. A right angle is $90°$.
2. $90 \div 1 = 90$ clicks.
3. $90 \times 1 = 90°$ checks the command.

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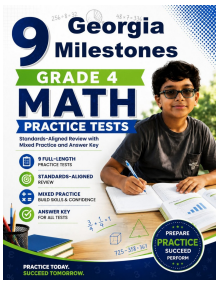

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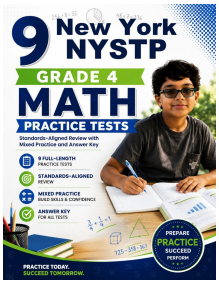

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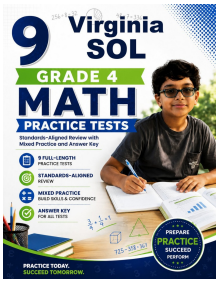

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