

4-5 Standardized Test Prep

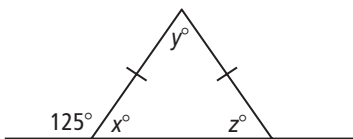
Isosceles and Equilateral Triangles

Gridded Response

Solve each exercise and enter your answer on the grid provided.

Refer to the diagram for Exercises 1–3.

1. What is the value of x ?



2. What is the value of y ?

3. What is the value of z ?

4. The measures of two of the sides of an equilateral triangle are $3x + 15$ in. and $7x - 5$ in. What is the measure of the third side in inches?

5. In $\triangle GHI$, $HI = GH$, $m\angle IHG = 3x + 4$, and $m\angle IGH = 2x - 24$. What is $m\angle HIG$?

Answers

1.

⊖	⊕	⊕	⊕	⊕	⊕
⊙	⊙	⊙	⊙	⊙	⊙
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

2.

⊖	⊕	⊕	⊕	⊕	⊕
⊙	⊙	⊙	⊙	⊙	⊙
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

3.

⊖	⊕	⊕	⊕	⊕	⊕
⊙	⊙	⊙	⊙	⊙	⊙
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

4.

⊖	⊕	⊕	⊕	⊕	⊕
⊙	⊙	⊙	⊙	⊙	⊙
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1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

5.

⊖	⊕	⊕	⊕	⊕	⊕
⊙	⊙	⊙	⊙	⊙	⊙
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9