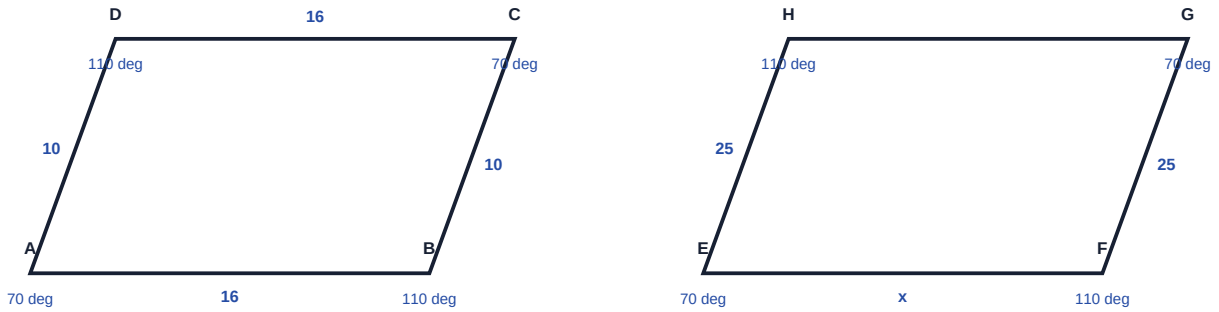
Math Sheet

Name _____ Score _____ Teacher _____ Date _____

Using Similar Polygons

Use corresponding sides in the printed left-to-right direction to find x.

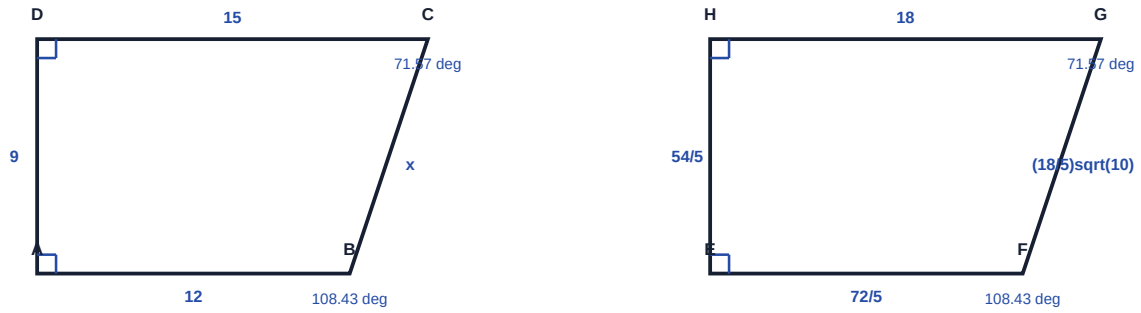
1. **The polygons are similar with the printed correspondence. Find x. The left:right ratio is 2:5.**



Correspondence: A<->E, B<->F, C<->G, D<->H

Left : right = 2:5

2. **The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.**



Correspondence: A<->E, B<->F, C<->G, D<->H

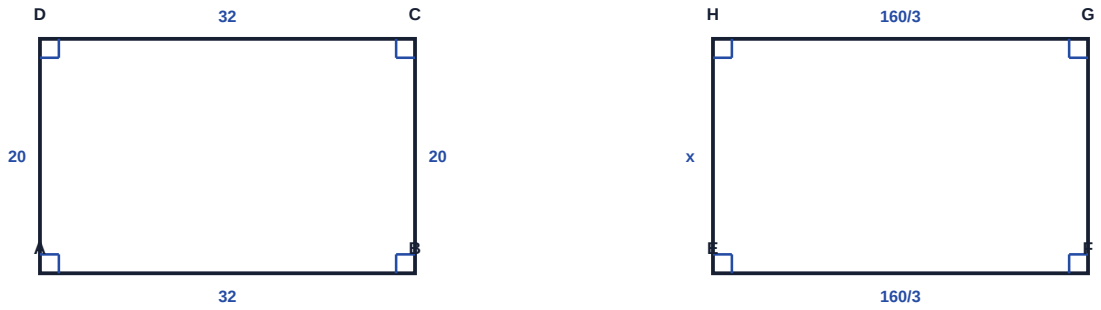
Diagrams are not to scale.

Name _____ Score _____ Teacher _____ Date _____

Using Similar Polygons

Use corresponding sides in the printed left-to-right direction to find x.

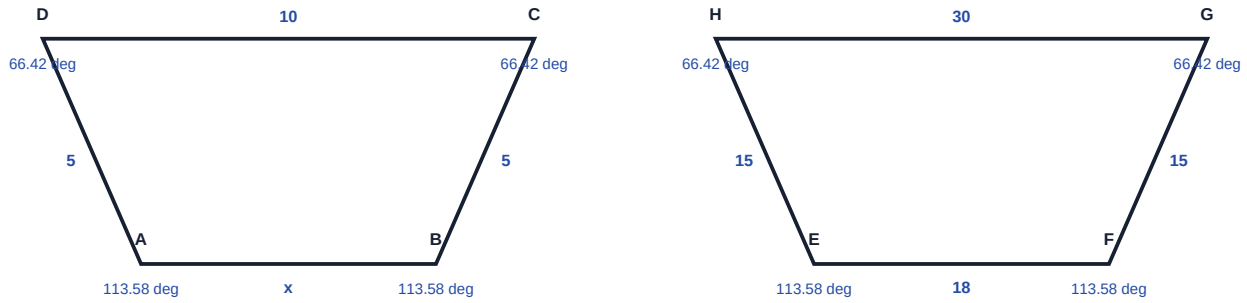
3. **The polygons are similar with the printed correspondence. Find x. The left:right ratio is 3:5.**



Correspondence: A<->E, B<->F, C<->G, D<->H

Left : right = 3:5

4. **The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.**



Correspondence: A<->E, B<->F, C<->G, D<->H

Name _____ Score _____ Teacher _____ Date _____

Using Similar Polygons

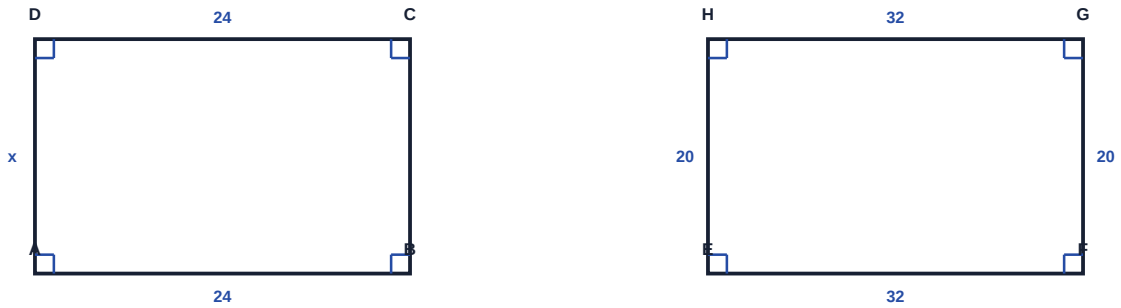
Use corresponding sides in the printed left-to-right direction to find x.

5. **The polygons are similar with the printed correspondence. Find x. The left:right ratio is 1:2.**

Correspondence: A<->E, B<->F, C<->G

Left : right = 1:2

6. **The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.**



Correspondence: A<->E, B<->F, C<->G, D<->H

Name _____ Score _____ Teacher _____ Date _____

Using Similar Polygons

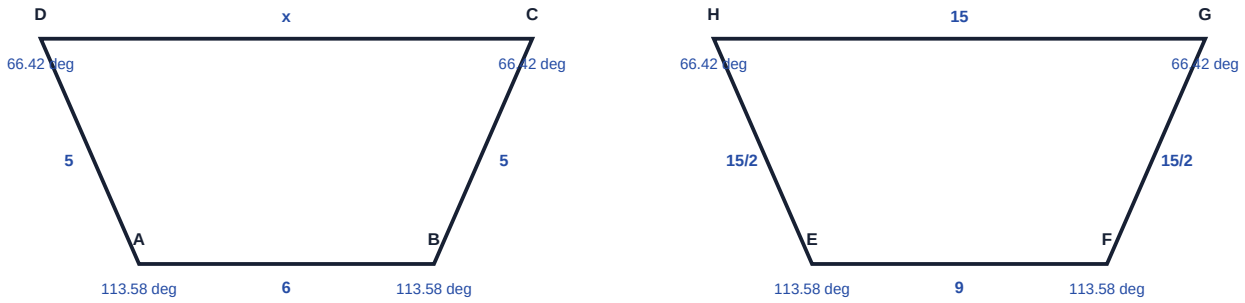
Use corresponding sides in the printed left-to-right direction to find x.

7. **The polygons are similar with the printed correspondence. Find x. The left:right ratio is 4:7.**

Correspondence: A<->E, B<->F, C<->G

Left : right = 4:7

8. **The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.**



Correspondence: A<->E, B<->F, C<->G, D<->H

Diagrams are not to scale.

Math Sheet

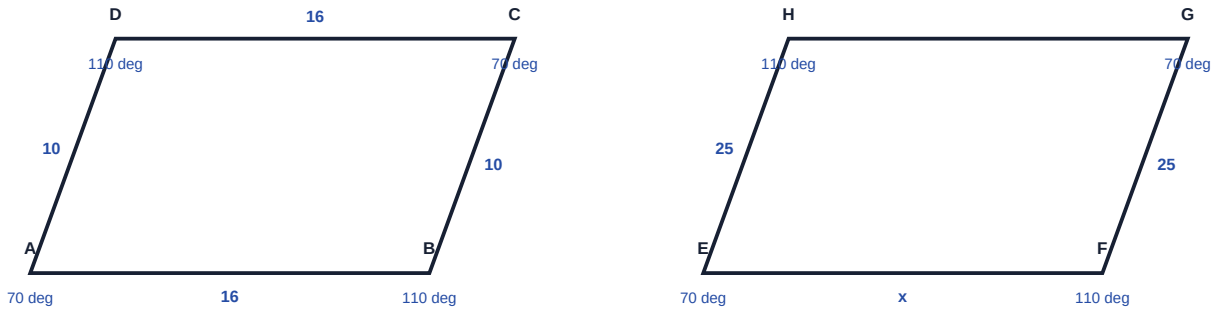
Name _____ Score _____ Teacher _____ Date _____

Using Similar Polygons

Worked Answer Key

Use corresponding sides in the printed left-to-right direction to find x.

1. **The polygons are similar with the printed correspondence. Find x. The left:right ratio is 2:5.**



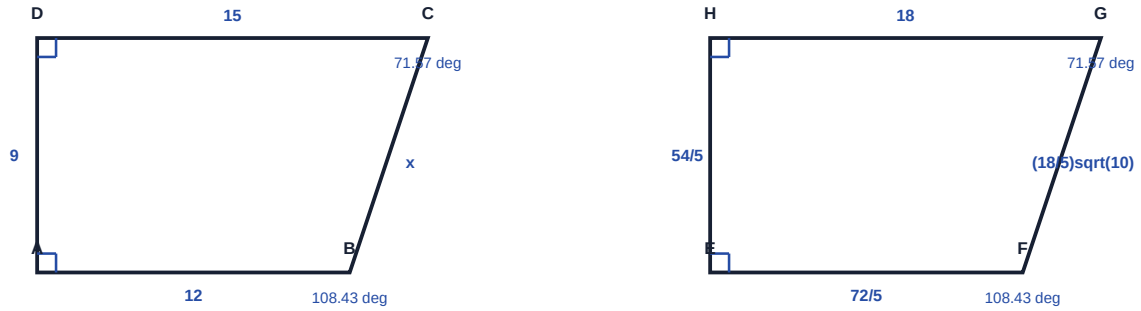
Correspondence: A<->E, B<->F, C<->G, D<->H

Left : right = 2:5

Proportion: right/left = 5/2

Use corresponding side 1.
x = 40.
x = 40

2. **The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.**



Correspondence: A<->E, B<->F, C<->G, D<->H

Proportion: right/left = 6/5

Use corresponding side 2.
x = 3sqrt(10).
x = 3sqrt(10)

Diagrams are not to scale.

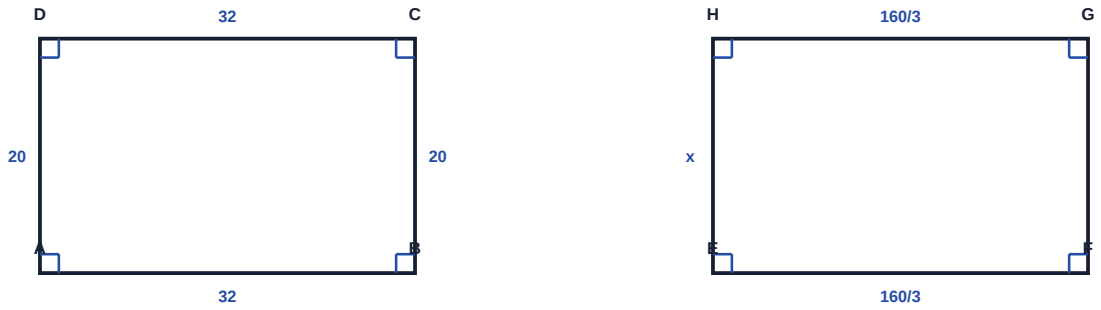
Name _____ Score _____ Teacher _____ Date _____

Using Similar Polygons

Worked Answer Key

Use corresponding sides in the printed left-to-right direction to find x.

3. **The polygons are similar with the printed correspondence. Find x. The left:right ratio is 3:5.**



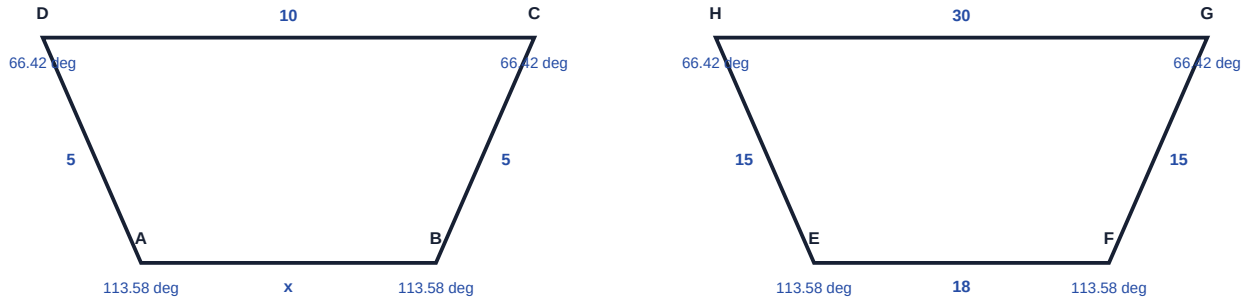
Correspondence: A<->E, B<->F, C<->G, D<->H

Left : right = 3:5

Proportion: right/left = 5/3

Use corresponding side 4.
x = 100/3.
x = 100/3

4. **The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.**



Correspondence: A<->E, B<->F, C<->G, D<->H

Proportion: right/left = 3

Use corresponding side 1.
x = 6.
x = 6

Name _____ Score _____ Teacher _____ Date _____

Using Similar Polygons

Worked Answer Key

Use corresponding sides in the printed left-to-right direction to find x.

5. **The polygons are similar with the printed correspondence. Find x. The left:right ratio is 1:2.**

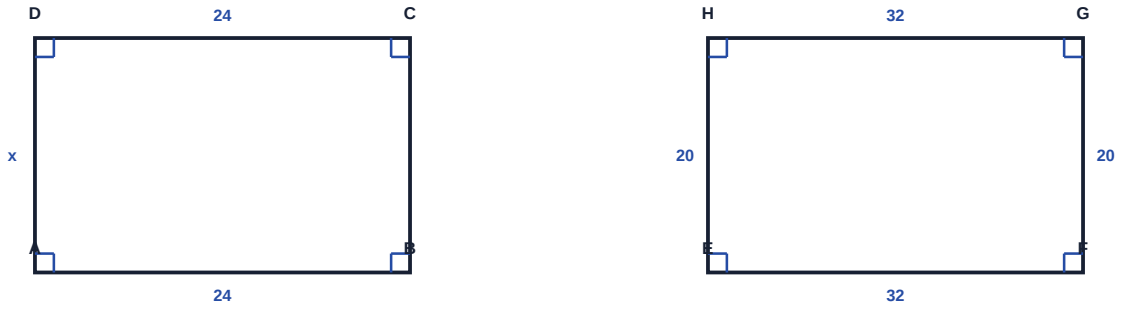
Correspondence: A<->E, B<->F, C<->G

Left : right = 1:2

Proportion: right/left = 2

Use corresponding side 1.
x = 12.
x = 12

6. **The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.**



Correspondence: A<->E, B<->F, C<->G, D<->H

Proportion: right/left = 4/3

Use corresponding side 4.
x = 15.
x = 15

Name _____ Score _____ Teacher _____ Date _____

Using Similar Polygons

Worked Answer Key

Use corresponding sides in the printed left-to-right direction to find x.

7. **The polygons are similar with the printed correspondence. Find x. The left:right ratio is 4:7.**

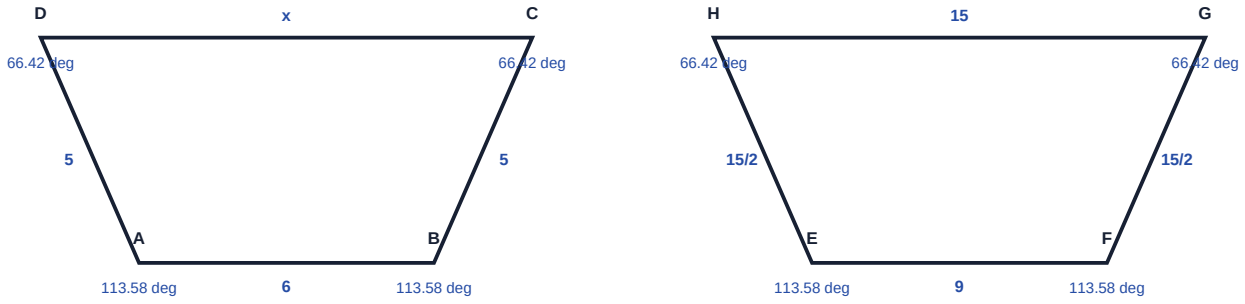
Correspondence: A<->E, B<->F, C<->G

Left : right = 4:7

Proportion: right/left = 7/4

Use corresponding side 1.
x = 21.
x = 21

8. **The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.**



Correspondence: A<->E, B<->F, C<->G, D<->H

Proportion: right/left = 3/2

Use corresponding side 3.
x = 10.
x = 10