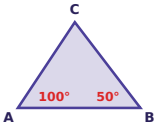
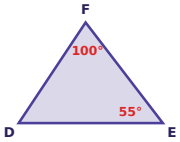
Task card 1 Angle-Angle Similarity & Similar T...

Are triangle ABC and triangle DEF similar? Write yes or no.

Triangle ABC



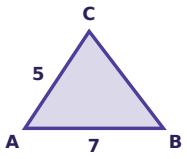
Triangle DEF



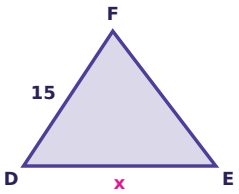
Task card 2 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



Triangle DEF



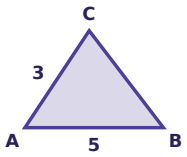
Task card 3 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF, with A matching D, B matching E and C matching F. Angle A is 40° and angle C is 95°. What is the measure of angle D?

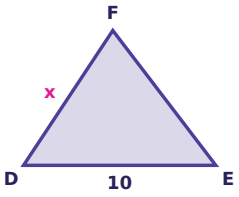
Task card 4 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



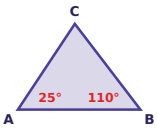
Triangle DEF



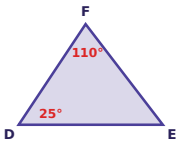
Task card 5 Angle-Angle Similarity & Similar T...

Are triangle ABC and triangle DEF similar? Write yes or no.

Triangle ABC



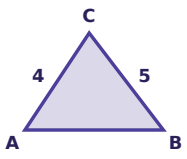
Triangle DEF



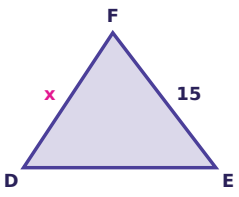
Task card 6 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



Triangle DEF



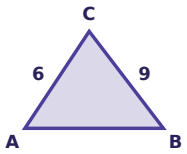
Task card 7 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF, with A matching D, B matching E and C matching F. Angle A is 80° and angle B is 65°. What is the measure of angle F?

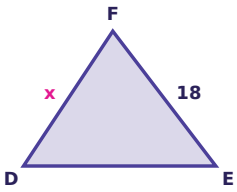
Task card 8 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



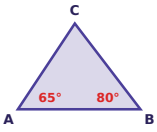
Triangle DEF



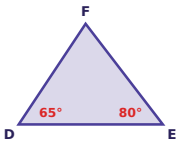
Task card 9 Angle-Angle Similarity & Similar T...

Are triangle ABC and triangle DEF similar? Write yes or no.

Triangle ABC



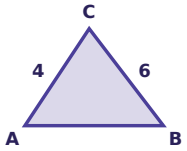
Triangle DEF



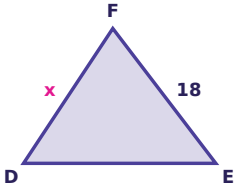
Task card 10 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



Triangle DEF



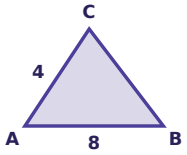
Task card 11 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF, with A matching D, B matching E and C matching F. Angle C is 100° and angle B is 25°. What is the measure of angle F?

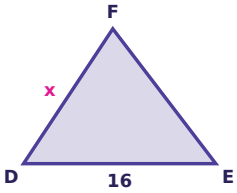
Task card 12 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



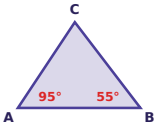
Triangle DEF



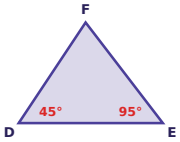
Task card 13 Angle-Angle Similarity & Similar T...

Are triangle ABC and triangle DEF similar? Write yes or no.

Triangle ABC



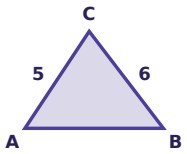
Triangle DEF



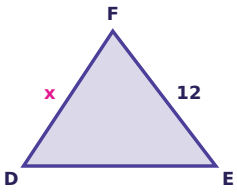
Task card 14 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



Triangle DEF



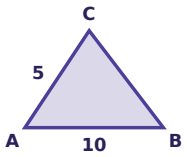
Task card 15 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF, with A matching D, B matching E and C matching F. Angle B is 45° and angle C is 50°. What is the measure of angle D?

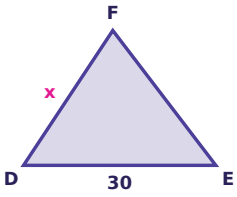
Task card 16 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



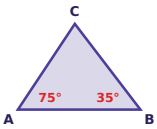
Triangle DEF



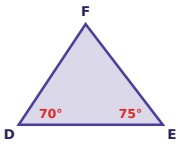
Task card 17 Angle-Angle Similarity & Similar T...

Are triangle ABC and triangle DEF similar? Write yes or no.

Triangle ABC



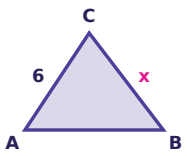
Triangle DEF



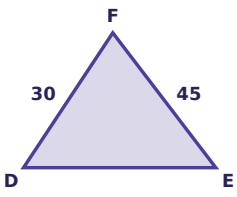
Task card 18 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



Triangle DEF



Task card 19 Angle-Angle Similarity & Similar T...

A street sign that is 6 feet tall casts a shadow 4 feet long. At the same time, a building that is 18 feet tall casts a shadow. The two triangles are similar. How many feet long is the shadow of the building?

Task card 20 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF, with A matching D, B matching E and C matching F. Angle C is 70° and angle E is 45°. What is the measure of angle A?

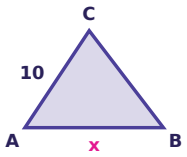
Task card 21 Angle-Angle Similarity & Similar T...

One right triangle has an acute angle of 24°. Another right triangle has an acute angle of 76°. Are the two triangles similar? Write yes or no.

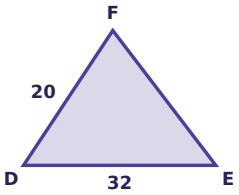
Task card 22 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



Triangle DEF



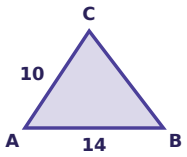
Task card 23 Angle-Angle Similarity & Similar T...

A pole that is 6 feet tall casts a shadow 9 feet long. At the same time, a tree that is 22 feet tall casts a shadow. The two triangles are similar. How many feet long is the shadow of the tree?

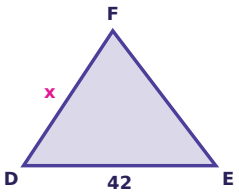
Task card 24 Angle-Angle Similarity & Similar T...

Triangle ABC is similar to triangle DEF. Find x.

Triangle ABC



Triangle DEF



Angle-Angle Similarity & Similar Triangles Task Cards

Recording sheet · Grade 8 · Answer each question. The pictures are not drawn to scale.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Angle-Angle Similarity & Similar Triangles Task Cards: Answer Key

Grade 8 · Easy

The answers online

1. no	**2.** 21	**3.** 40°
4. 6	**5.** yes	**6.** 12
7. 35°	**8.** 12	**9.** yes
10. 12	**11.** 100°	**12.** 8
13. no	**14.** 10	**15.** 85°
16. 15	**17.** yes	**18.** 9
19. 12	**20.** 65°	**21.** no
22. 16	**23.** 33	**24.** 30