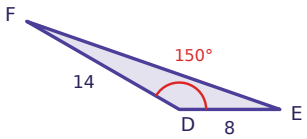
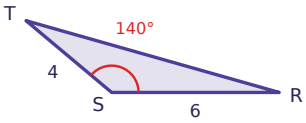
Task card 1 Area of a Triangle with Trigonomet...

In △DEF, DE = 8, DF = 14 and m∠D = 150°. Find the area of △DEF.



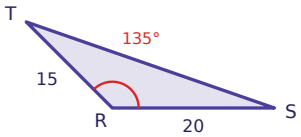
Task card 2 Area of a Triangle with Trigonomet...

In △RST, RS = 6, ST = 4 and m∠S = 140°. Find the area of △RST. Round to the nearest tenth.



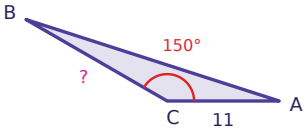
Task card 3 Area of a Triangle with Trigonomet...

In △RST, RS = 20, RT = 15 and m∠R = 135°. Find the area of △RST. Leave your answer in simplest radical form.



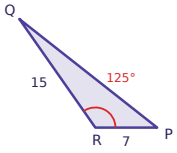
Task card 4 Area of a Triangle with Trigonomet...

The area of △ABC is 44. AC = 11 and m∠C = 150°. Find BC.



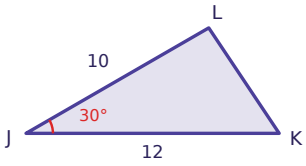
Task card 5 Area of a Triangle with Trigonomet...

In △PQR, PR = 7, QR = 15 and m∠R = 125°. Find the area of △PQR. Round to the nearest tenth.



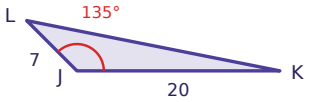
Task card 6 Area of a Triangle with Trigonomet...

In △JKL, JK = 12, JL = 10 and m∠J = 30°. Find the area of △JKL.



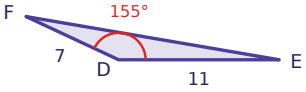
Task card 7 Area of a Triangle with Trigonomet...

In △JKL, JK = 20, JL = 7 and m∠J = 135°. Find the area of △JKL. Leave your answer in simplest radical form.



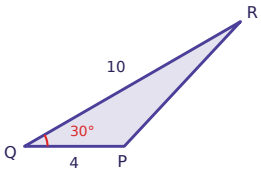
Task card 8 Area of a Triangle with Trigonomet...

In △DEF, DE = 11, DF = 7 and m∠D = 155°. Find the area of △DEF. Round to the nearest tenth.



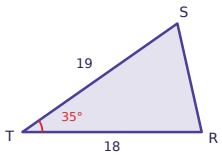
Task card 9 Area of a Triangle with Trigonomet...

In △PQR, PQ = 4, QR = 10 and m∠Q = 30°. Find the area of △PQR.



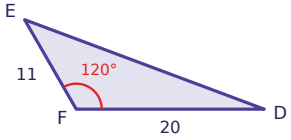
Task card 10 Area of a Triangle with Trigonomet...

In △RST, RT = 18, ST = 19 and m∠T = 35°. Find the area of △RST. Round to the nearest tenth.



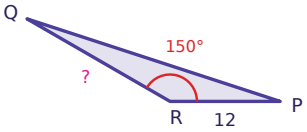
Task card 11 Area of a Triangle with Trigonomet...

In △DEF, DF = 20, EF = 11 and m∠F = 120°. Find the area of △DEF. Leave your answer in simplest radical form.



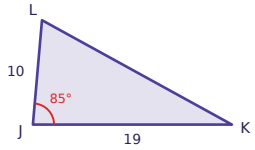
Task card 12 Area of a Triangle with Trigonomet...

The area of △PQR is 54. PR = 12 and m∠R = 150°. Find QR.



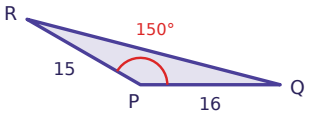
Task card 13 Area of a Triangle with Trigonomet...

In △JKL, JK = 19, JL = 10 and m∠J = 85°. Find the area of △JKL. Round to the nearest tenth.



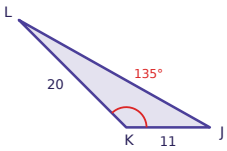
Task card 14 Area of a Triangle with Trigonomet...

In △PQR, PQ = 16, PR = 15 and m∠P = 150°. Find the area of △PQR.



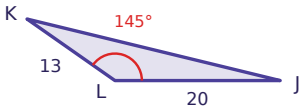
Task card 15 Area of a Triangle with Trigonomet...

In △JKL, JK = 11, KL = 20 and m∠K = 135°. Find the area of △JKL. Leave your answer in simplest radical form.



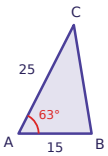
Task card 16 Area of a Triangle with Trigonomet...

In △JKL, JL = 20, KL = 13 and m∠L = 145°. Find the area of △JKL. Round to the nearest tenth.



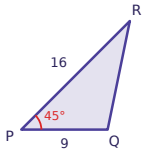
Task card 17 Area of a Triangle with Trigonomet...

In △ABC, AB = 15, AC = 25 and m∠A = 63°. Find the area of △ABC. Round to the nearest tenth.



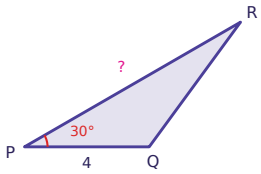
Task card 18 Area of a Triangle with Trigonomet...

In △PQR, PQ = 9, PR = 16 and m∠P = 45°. Find the area of △PQR. Leave your answer in simplest radical form.



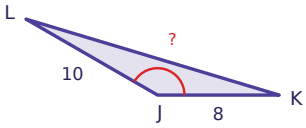
Task card 19 Area of a Triangle with Trigonomet...

The area of △PQR is 8. PQ = 4 and m∠P = 30°. Find PR.



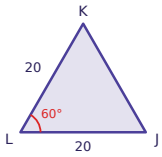
Task card 20 Area of a Triangle with Trigonomet...

The area of △JKL is 20. JK = 8, JL = 10 and ∠J is obtuse. Find m∠J.



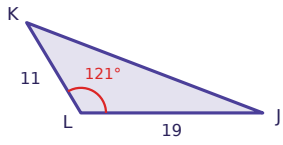
Task card 21 Area of a Triangle with Trigonomet...

△JKL is equilateral with side length 20. Find its area. Leave your answer in simplest radical form.



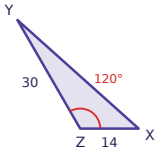
Task card 22 Area of a Triangle with Trigonomet...

In △JKL, JL = 19, KL = 11 and m∠L = 121°. Find the area of △JKL. Round to the nearest tenth.



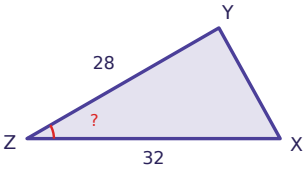
Task card 23 Area of a Triangle with Trigonomet...

In △XYZ, XZ = 14, YZ = 30 and m∠Z = 120°. Find the area of △XYZ. Leave your answer in simplest radical form.



Task card 24 Area of a Triangle with Trigonomet...

The area of △XYZ is 224. XZ = 32, YZ = 28 and ∠Z is acute. Find m∠Z.



Area of a Triangle with Trigonometry Task Cards

Recording sheet · Grade 10 · Use Area = 1/2 · a · b · sin C, where C is the angle between sides a and b. Give exact answers unless the question says to round.

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

Area of a Triangle with Trigonometry Task Cards: Answer Key

Grade 10 · Medium

The answers online

1. 28	**2.** 7.7	**3.** 75√2
4. 16	**5.** 43.0	**6.** 30
7. 35√2	**8.** 16.3	**9.** 10
10. 98.1	**11.** 55√3	**12.** 18
13. 94.6	**14.** 60	**15.** 55√2
16. 74.6	**17.** 167.1	**18.** 36√2
19. 8	**20.** 150°	**21.** 100√3
22. 89.6	**23.** 105√3	**24.** 30°