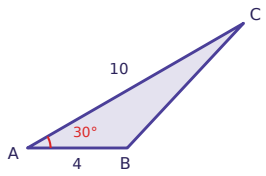
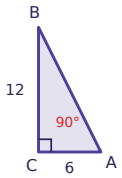
Task card 1 Area of a Triangle with Trigonomet...

In △ABC, AB = 4, AC = 10 and m∠A = 30°. Find the area of △ABC.



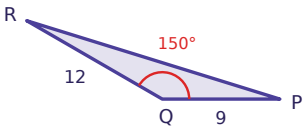
Task card 2 Area of a Triangle with Trigonomet...

In △ABC, AC = 6, BC = 12 and m∠C = 90°. Find the area of △ABC.



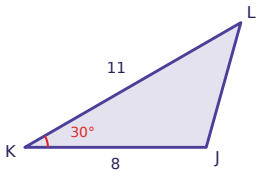
Task card 3 Area of a Triangle with Trigonomet...

In △PQR, PQ = 9, QR = 12 and m∠Q = 150°. Find the area of △PQR.



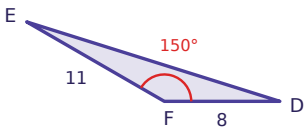
Task card 4 Area of a Triangle with Trigonomet...

In △JKL, JK = 8, KL = 11 and m∠K = 30°. Find the area of △JKL.



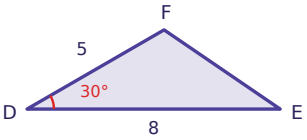
Task card 5 Area of a Triangle with Trigonomet...

In △DEF, DF = 8, EF = 11 and m∠F = 150°. Find the area of △DEF.



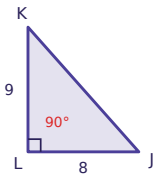
Task card 6 Area of a Triangle with Trigonomet...

In △DEF, DE = 8, DF = 5 and m∠D = 30°. Find the area of △DEF.



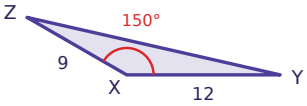
Task card 7 Area of a Triangle with Trigonomet...

In △JKL, JL = 8, KL = 9 and m∠L = 90°. Find the area of △JKL.



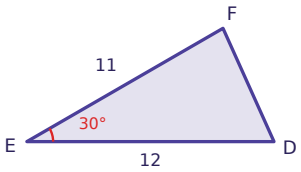
Task card 8 Area of a Triangle with Trigonomet...

In △XYZ, XY = 12, XZ = 9 and m∠X = 150°. Find the area of △XYZ.



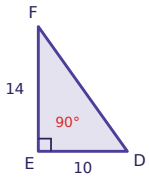
Task card 9 Area of a Triangle with Trigonomet...

In △DEF, DE = 12, EF = 11 and m∠E = 30°. Find the area of △DEF.



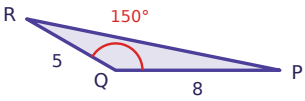
Task card 10 Area of a Triangle with Trigonomet...

In △DEF, DE = 10, EF = 14 and m∠E = 90°. Find the area of △DEF.



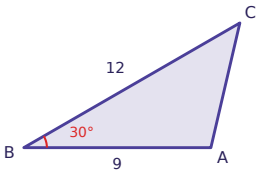
Task card 11 Area of a Triangle with Trigonomet...

In △PQR, PQ = 8, QR = 5 and m∠Q = 150°. Find the area of △PQR.



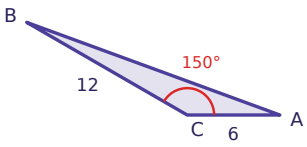
Task card 12 Area of a Triangle with Trigonomet...

In △ABC, AB = 9, BC = 12 and m∠B = 30°. Find the area of △ABC.



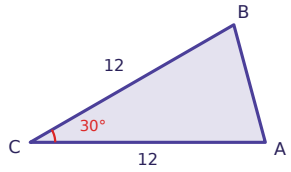
Task card 13 Area of a Triangle with Trigonomet...

In △ABC, AC = 6, BC = 12 and m∠C = 150°. Find the area of △ABC.



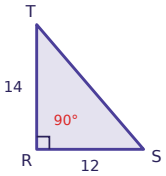
Task card 14 Area of a Triangle with Trigonomet...

In △ABC, AC = 12, BC = 12 and m∠C = 30°. Find the area of △ABC.



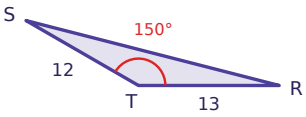
Task card 15 Area of a Triangle with Trigonomet...

In △RST, RS = 12, RT = 14 and m∠R = 90°. Find the area of △RST.



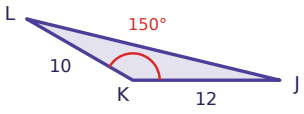
Task card 16 Area of a Triangle with Trigonomet...

In △RST, RT = 13, ST = 12 and m∠T = 150°. Find the area of △RST.



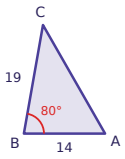
Task card 17 Area of a Triangle with Trigonomet...

In △JKL, JK = 12, KL = 10 and m∠K = 150°. Find the area of △JKL.



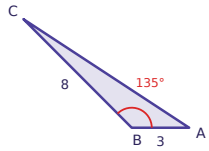
Task card 18 Area of a Triangle with Trigonomet...

In △ABC, AB = 14, BC = 19 and m∠B = 80°. Find the area of △ABC. Round to the nearest tenth.



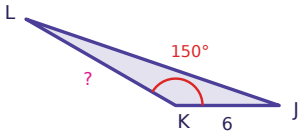
Task card 19 Area of a Triangle with Trigonomet...

In △ABC, AB = 3, BC = 8 and m∠B = 135°. Find the area of △ABC. Leave your answer in simplest radical form.



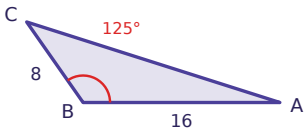
Task card 20 Area of a Triangle with Trigonomet...

The area of △JKL is 15. JK = 6 and m∠K = 150°. Find KL.



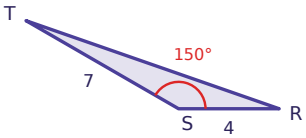
Task card 21 Area of a Triangle with Trigonomet...

In △ABC, AB = 16, BC = 8 and m∠B = 125°. Find the area of △ABC. Round to the nearest tenth.



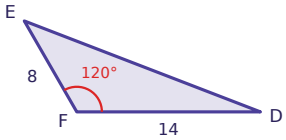
Task card 22 Area of a Triangle with Trigonomet...

In △RST, RS = 4, ST = 7 and m∠S = 150°. Find the area of △RST.



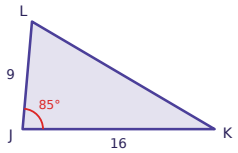
Task card 23 Area of a Triangle with Trigonomet...

In △DEF, DF = 14, EF = 8 and m∠F = 120°. Find the area of △DEF. Leave your answer in simplest radical form.



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

In △JKL, JK = 16, JL = 9 and m∠J = 85°. Find the area of △JKL. Round to the nearest tenth.



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 · Easy

The answers online

1. 10	**2.** 36	**3.** 27
4. 22	**5.** 22	**6.** 10
7. 36	**8.** 27	**9.** 33
10. 70	**11.** 10	**12.** 27
13. 18	**14.** 36	**15.** 84
16. 39	**17.** 30	**18.** 131.0
19. $6\sqrt{2}$	**20.** 10	**21.** 52.4
22. 7	**23.** $28\sqrt{3}$	**24.** 71.7