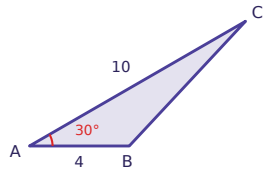
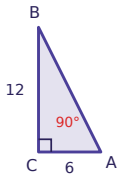
**Task card 1** Area of a Triangle with Trigonomet...

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



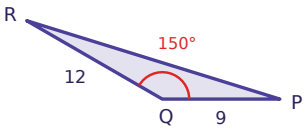

**Task card 2** Area of a Triangle with Trigonomet...

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



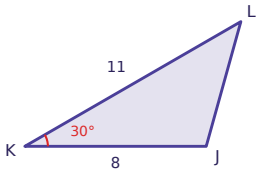

**Task card 3** Area of a Triangle with Trigonomet...

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



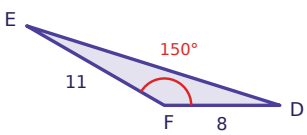

**Task card 4** Area of a Triangle with Trigonomet...

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



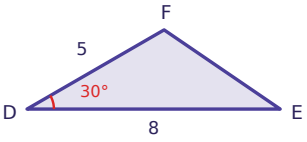

**Task card 5** Area of a Triangle with Trigonomet...

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



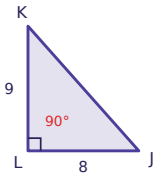

**Task card 6** Area of a Triangle with Trigonomet...

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



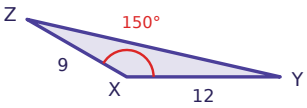
**Task card 7** Area of a Triangle with Trigonomet...

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



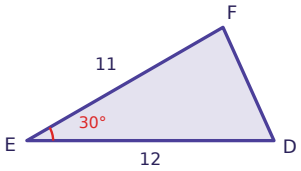

**Task card 8** Area of a Triangle with Trigonomet...

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



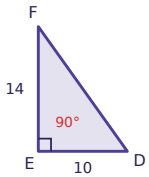

**Task card 9** Area of a Triangle with Trigonomet...

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



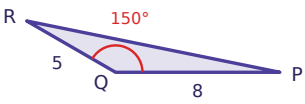

**Task card 10** Area of a Triangle with Trigonomet...

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



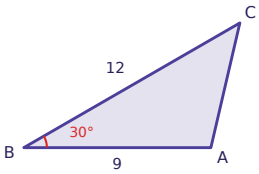

**Task card 11** Area of a Triangle with Trigonomet...

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



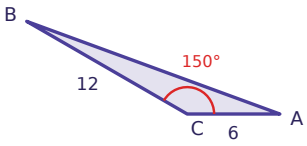

**Task card 12** Area of a Triangle with Trigonomet...

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



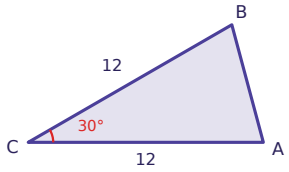
**Task card 13** Area of a Triangle with Trigonomet...

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



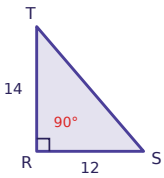

**Task card 14** Area of a Triangle with Trigonomet...

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



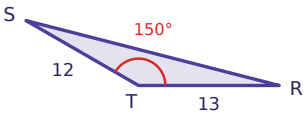

**Task card 15** Area of a Triangle with Trigonomet...

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



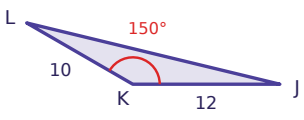

**Task card 16** Area of a Triangle with Trigonomet...

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



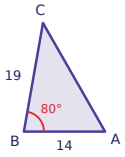

**Task card 17** Area of a Triangle with Trigonomet...

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



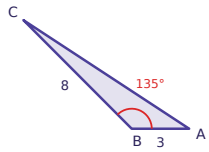

**Task card 18** Area of a Triangle with Trigonomet...

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



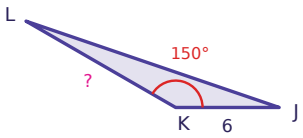
**Task card 19** Area of a Triangle with Trigonomet...

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



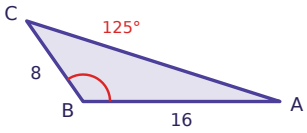

**Task card 20** Area of a Triangle with Trigonomet...

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



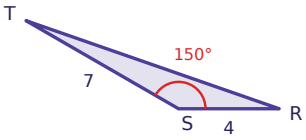

**Task card 21** Area of a Triangle with Trigonomet...

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



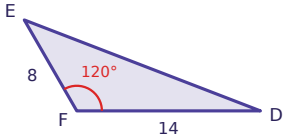

**Task card 22** Area of a Triangle with Trigonomet...

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



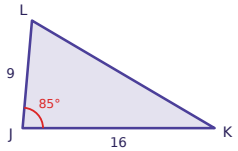

**Task card 23** Area of a Triangle with Trigonomet...

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 |