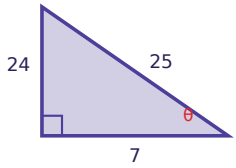
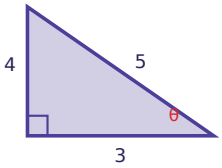
Task card 1 Trigonometric Ratios

In a right triangle with legs 7 and 24 and hypotenuse 25, if θ is the angle opposite the side of length 24, find sin(θ).



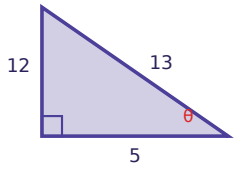
Task card 2 Trigonometric Ratios

In a right triangle with legs 3 and 4 and hypotenuse 5, if θ is the angle opposite the side of length 4, find cos(θ).



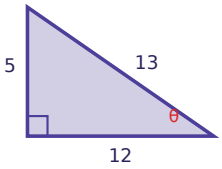
Task card 3 Trigonometric Ratios

In a right triangle with legs 5 and 12 and hypotenuse 13, if θ is the angle opposite the side of length 12, find tan(θ).



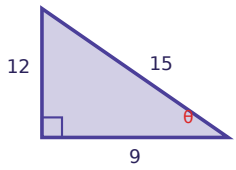
Task card 4 Trigonometric Ratios

In a right triangle with legs 5 and 12 and hypotenuse 13, if θ is the angle opposite the side of length 5, find sin(θ).



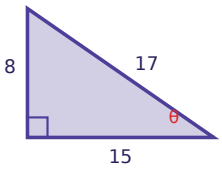
Task card 5 Trigonometric Ratios

In a right triangle with legs 9 and 12 and hypotenuse 15, if θ is the angle opposite the side of length 12, find cos(θ).



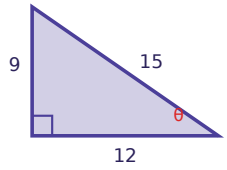
Task card 6 Trigonometric Ratios

In a right triangle with legs 8 and 15 and hypotenuse 17, if θ is the angle opposite the side of length 8, find tan(θ).



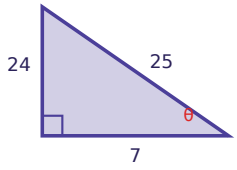
Task card 7 Trigonometric Ratios

In a right triangle with legs 9 and 12 and hypotenuse 15, if θ is the angle opposite the side of length 9, find sin(θ).



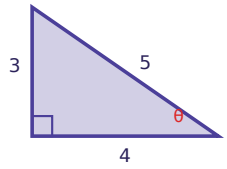
Task card 8 Trigonometric Ratios

In a right triangle with legs 7 and 24 and hypotenuse 25, if θ is the angle opposite the side of length 24, find cos(θ).



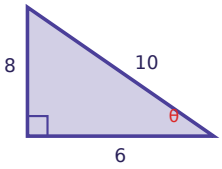
Task card 9 Trigonometric Ratios

In a right triangle with legs 3 and 4 and hypotenuse 5, if θ is the angle opposite the side of length 3, find sin(θ).



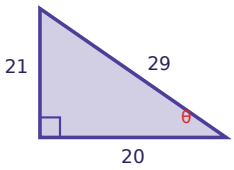
Task card 10 Trigonometric Ratios

In a right triangle with legs 6 and 8 and hypotenuse 10, if θ is the angle opposite the side of length 8, find cos(θ).



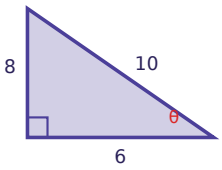
Task card 11 Trigonometric Ratios

In a right triangle with legs 20 and 21 and hypotenuse 29, if θ is the angle opposite the side of length 21, find cos(θ).



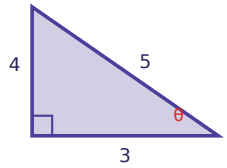
Task card 12 Trigonometric Ratios

In a right triangle with legs 6 and 8 and hypotenuse 10, if θ is the angle opposite the side of length 8, find tan(θ).



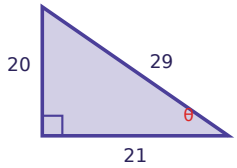
Task card 13 Trigonometric Ratios

In a right triangle with legs 3 and 4 and hypotenuse 5, if θ is the angle opposite the side of length 4, find sin(θ).



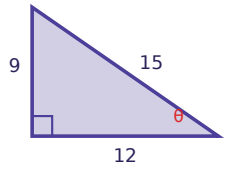
Task card 14 Trigonometric Ratios

In a right triangle with legs 20 and 21 and hypotenuse 29, if θ is the angle opposite the side of length 20, find cos(θ).



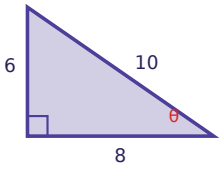
Task card 15 Trigonometric Ratios

In a right triangle with legs 9 and 12 and hypotenuse 15, if θ is the angle opposite the side of length 9, find tan(θ).



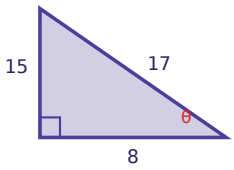
Task card 16 Trigonometric Ratios

In a right triangle with legs 6 and 8 and hypotenuse 10, if θ is the angle opposite the side of length 6, find tan(θ).



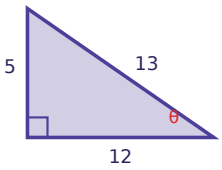
Task card 17 Trigonometric Ratios

In a right triangle with legs 8 and 15 and hypotenuse 17, if θ is the angle opposite the side of length 15, find sin(θ).



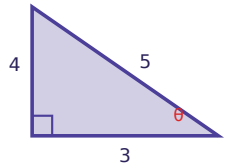
Task card 18 Trigonometric Ratios

In a right triangle with legs 5 and 12 and hypotenuse 13, if θ is the angle opposite the side of length 5, find cos(θ).



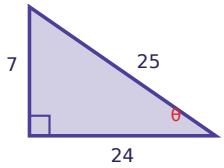
Task card 19 Trigonometric Ratios

In a right triangle with legs 3 and 4 and hypotenuse 5, if θ is the angle opposite the side of length 4, find tan(θ).



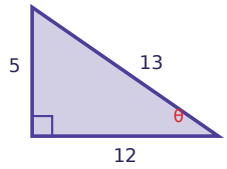
Task card 20 Trigonometric Ratios

In a right triangle with legs 7 and 24 and hypotenuse 25, if θ is the angle opposite the side of length 7, find cos(θ).



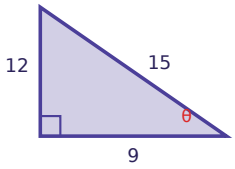
Task card 21 Trigonometric Ratios

In a right triangle with legs 5 and 12 and hypotenuse 13, if θ is the angle opposite the side of length 5, find tan(θ).



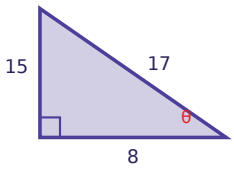
Task card 22 Trigonometric Ratios

In a right triangle with legs 9 and 12 and hypotenuse 15, if θ is the angle opposite the side of length 12, find sin(θ).



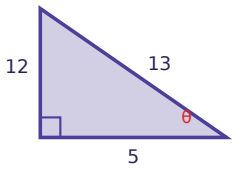
Task card 23 Trigonometric Ratios

In a right triangle with legs 8 and 15 and hypotenuse 17, if θ is the angle opposite the side of length 15, find cos(θ).



Task card 24 Trigonometric Ratios

In a right triangle with legs 5 and 12 and hypotenuse 13, if θ is the angle opposite the side of length 12, find sin(θ).



Trigonometric Ratios Task Cards

Recording sheet · Grade 12 · Write each ratio as a fraction in simplest form (relative to the given angle).

Name: _____ Date: _____

Scan to check your answers

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

Trigonometric Ratios Task Cards: Answer Key

Grade 12 · Hard

The answers online

1. $\frac{24}{25}$	**2.** $\frac{3}{5}$	**3.** $\frac{12}{5}$
4. $\frac{5}{13}$	**5.** $\frac{3}{5}$	**6.** $\frac{8}{15}$
7. $\frac{3}{5}$	**8.** $\frac{7}{25}$	**9.** $\frac{3}{5}$
10. $\frac{3}{5}$	**11.** $\frac{20}{29}$	**12.** $\frac{4}{3}$
13. $\frac{4}{5}$	**14.** $\frac{21}{29}$	**15.** $\frac{3}{4}$
16. $\frac{3}{4}$	**17.** $\frac{15}{17}$	**18.** $\frac{12}{13}$
19. $\frac{4}{3}$	**20.** $\frac{24}{25}$	**21.** $\frac{5}{12}$
22. $\frac{4}{5}$	**23.** $\frac{8}{17}$	**24.** $\frac{12}{13}$