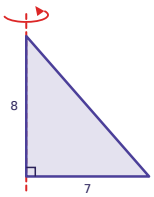
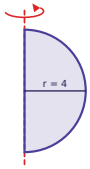
Task card 1 Solids of Revolution

A right triangle with legs 7 and 8 is rotated about the leg of length 8. Find the volume of the solid to the nearest tenth.



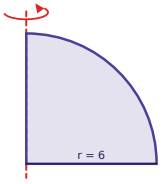
Task card 2 Solids of Revolution

A semicircle with radius 4 is rotated about its diameter. Find the volume of the solid to the nearest tenth.



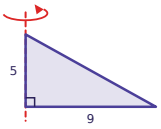
Task card 3 Solids of Revolution

A quarter circle with radius 6 is rotated about one of its straight edges. Find the volume of the solid in terms of π.



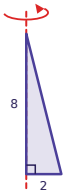
Task card 4 Solids of Revolution

A right triangle with legs 9 and 5 is rotated about the leg of length 5. Find the volume of the solid in terms of π.



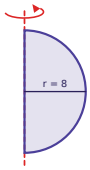
Task card 5 Solids of Revolution

A right triangle with legs 2 and 8 is rotated about the leg of length 8. Find the volume of the solid to the nearest tenth.



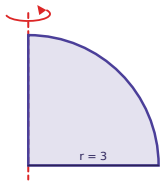
Task card 6 Solids of Revolution

A semicircle with radius 8 is rotated about its diameter. Find the volume of the solid to the nearest tenth.



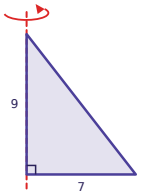
Task card 7 Solids of Revolution

A quarter circle with radius 3 is rotated about one of its straight edges. Find the volume of the solid in terms of π.



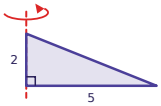
Task card 8 Solids of Revolution

A right triangle with legs 7 and 9 is rotated about the leg of length 9. Find the volume of the solid in terms of π.



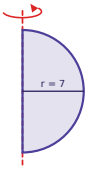
Task card 9 Solids of Revolution

A right triangle with legs 5 and 2 is rotated about the leg of length 2. Find the volume of the solid to the nearest tenth.



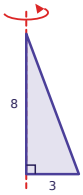
Task card 10 Solids of Revolution

A semicircle with radius 7 is rotated about its diameter. Find the volume of the solid to the nearest tenth.



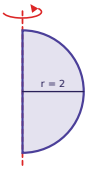
Task card 11 Solids of Revolution

A right triangle with legs 3 and 8 is rotated about the leg of length 8. Find the volume of the solid in terms of π.



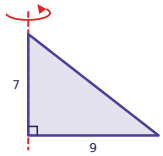
Task card 12 Solids of Revolution

A semicircle with radius 2 is rotated about its diameter. Find the volume of the solid to the nearest tenth.



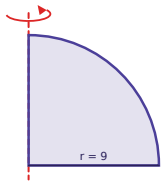
Task card 13 Solids of Revolution

A right triangle with legs 9 and 7 is rotated about the leg of length 7. Find the volume of the solid in terms of π.



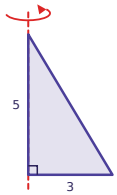
Task card 14 Solids of Revolution

A quarter circle with radius 9 is rotated about one of its straight edges. Find the volume of the solid in terms of π.



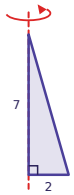
Task card 15 Solids of Revolution

A right triangle with legs 3 and 5 is rotated about the leg of length 5. Find the volume of the solid in terms of π.



Task card 16 Solids of Revolution

A right triangle with legs 2 and 7 is rotated about the leg of length 7. Find the volume of the solid to the nearest tenth.



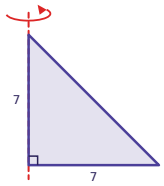
Task card 17 Solids of Revolution

A right triangle with legs 3 and 10 is rotated about the leg of length 10. Find the volume of the solid in terms of π.



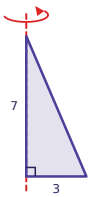
Task card 18 Solids of Revolution

A right triangle with legs 7 and 7 is rotated about the leg of length 7. Find the volume of the solid to the nearest tenth.



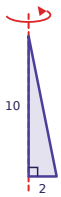
Task card 19 Solids of Revolution

A right triangle with legs 3 and 7 is rotated about the leg of length 7. Find the volume of the solid in terms of π.



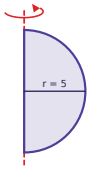
Task card 20 Solids of Revolution

A right triangle with legs 2 and 10 is rotated about the leg of length 10. Find the volume of the solid to the nearest tenth.



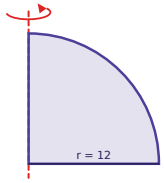
Task card 21 Solids of Revolution

A semicircle with radius 5 is rotated about its diameter. Find the volume of the solid to the nearest tenth.



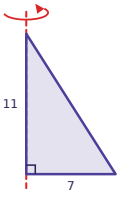
Task card 22 Solids of Revolution

A quarter circle with radius 12 is rotated about one of its straight edges. Find the volume of the solid in terms of π.



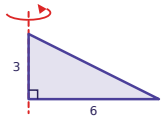
Task card 23 Solids of Revolution

A right triangle with legs 7 and 11 is rotated about the leg of length 11. Find the volume of the solid to the nearest tenth.



Task card 24 Solids of Revolution

A right triangle with legs 6 and 3 is rotated about the leg of length 3. Find the volume of the solid in terms of π.



Solids of Revolution Task Cards

Recording sheet · Grade 10 · Name a solid with one word: cylinder, cone, sphere or hemisphere. Give volumes in terms of π, like 36π, unless the problem says to round; then use the π key and round to the nearest tenth (like 52.4). Other lengths are numbers.

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

Solids of Revolution Task Cards: Answer Key

Grade 10 · Hard

The answers online

1. 410.5	**2.** 268.1	**3.** 144π
4. 135π	**5.** 33.5	**6.** 2144.7
7. 18π	**8.** 147π	**9.** 52.4
10. 1436.8	**11.** 24π	**12.** 33.5
13. 189π	**14.** 486π	**15.** 15π
16. 29.3	**17.** 30π	**18.** 359.2
19. 21π	**20.** 41.9	**21.** 523.6
22. 1152π	**23.** 564.4	**24.** 36π