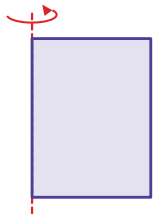
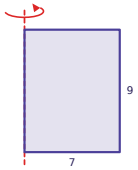
Task card 1 Solids of Revolution

A rectangle is rotated all the way around one of its sides. What solid is formed?



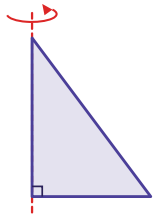
Task card 2 Solids of Revolution

A 7 by 9 rectangle is rotated about its side of length 9. Find the volume of the solid in terms of π.



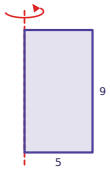
Task card 3 Solids of Revolution

A right triangle is rotated all the way around one of its legs. What solid is formed?



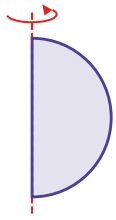
Task card 4 Solids of Revolution

A 5 by 9 rectangle is rotated about its side of length 9. What is the radius of the cylinder formed?



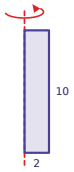
Task card 5 Solids of Revolution

A semicircle is rotated all the way around its diameter. What solid is formed?



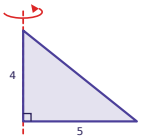
Task card 6 Solids of Revolution

A 2 by 10 rectangle is rotated about its side of length 10. Find the volume of the solid in terms of π.



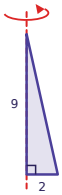
Task card 7 Solids of Revolution

A right triangle with legs 5 and 4 is rotated about the leg of length 4. What is the height of the cone formed?



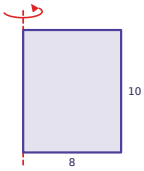
Task card 8 Solids of Revolution

A right triangle with legs 2 and 9 is rotated about the leg of length 9. Find the volume of the solid in terms of π.



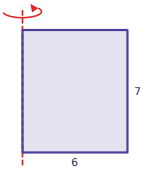
Task card 9 Solids of Revolution

A 8 by 10 rectangle is rotated about its side of length 10. Find the volume of the solid in terms of π.



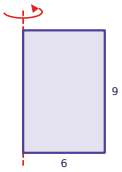
Task card 10 Solids of Revolution

A 6 by 7 rectangle is rotated about its side of length 7. What is the radius of the cylinder formed?



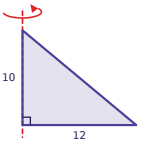
Task card 11 Solids of Revolution

A 6 by 9 rectangle is rotated about its side of length 9. Find the volume of the solid in terms of π.



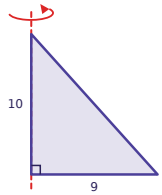
Task card 12 Solids of Revolution

A right triangle with legs 12 and 10 is rotated about the leg of length 10. What is the height of the cone formed?



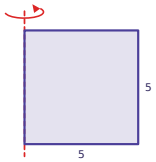
Task card 13 Solids of Revolution

A right triangle with legs 9 and 10 is rotated about the leg of length 10. Find the volume of the solid in terms of π.



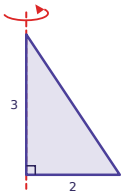
Task card 14 Solids of Revolution

A 5 by 5 rectangle is rotated about its side of length 5. Find the volume of the solid in terms of π.



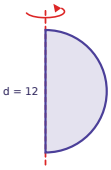
Task card 15 Solids of Revolution

A right triangle with legs 2 and 3 is rotated about the leg of length 3. Find the volume of the solid in terms of π.



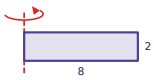
Task card 16 Solids of Revolution

A semicircle with diameter 12 is rotated about its diameter. Find the volume of the solid in terms of π.



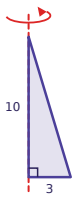
Task card 17 Solids of Revolution

A 8 by 2 rectangle is rotated about its side of length 2. Find the volume of the solid in terms of π.



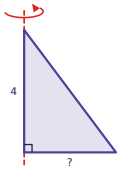
Task card 18 Solids of Revolution

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.



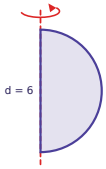
Task card 19 Solids of Revolution

A right triangle is rotated about its leg of length 4, making a cone with volume 12π. How long is the other leg?



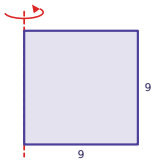
Task card 20 Solids of Revolution

A semicircle with diameter 6 is rotated about its diameter. Find the volume of the solid in terms of π.



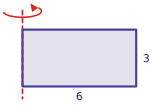
Task card 21 Solids of Revolution

A 9 by 9 rectangle is rotated about its side of length 9. Find the volume of the solid in terms of π.



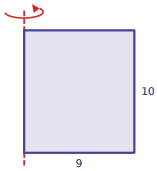
Task card 22 Solids of Revolution

A 6 by 3 rectangle is rotated about its side of length 3. What is the radius of the cylinder formed?



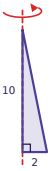
Task card 23 Solids of Revolution

A 9 by 10 rectangle is rotated about its side of length 10. Find the volume of the solid in terms of π.



Task card 24 Solids of Revolution

A right triangle with legs 2 and 10 is rotated about the leg of length 10. What is the height of the cone formed?



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 · Easy

The answers online

1. cylinder	**2.** 441π	**3.** cone
4. 5	**5.** sphere	**6.** 40π
7. 4	**8.** 12π	**9.** 640π
10. 6	**11.** 324π	**12.** 10
13. 270π	**14.** 125π	**15.** 4π
16. 288π	**17.** 128π	**18.** 30π
19. 3	**20.** 36π	**21.** 729π
22. 6	**23.** 810π	**24.** 10