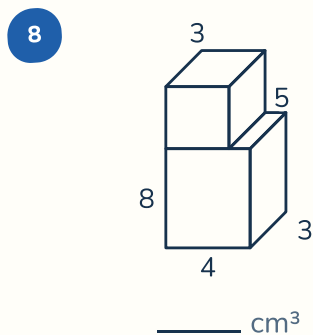
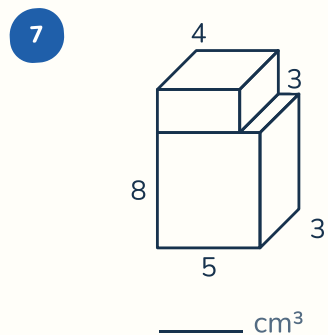
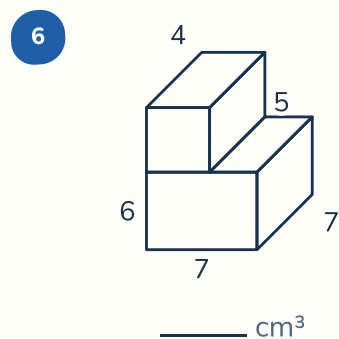
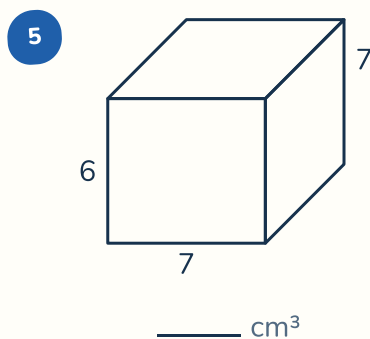
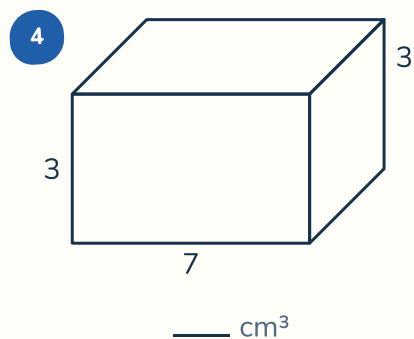
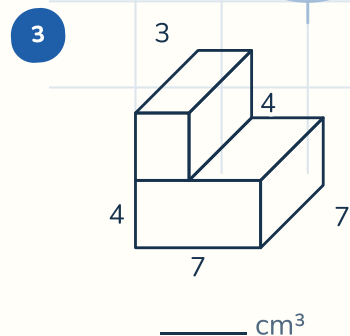
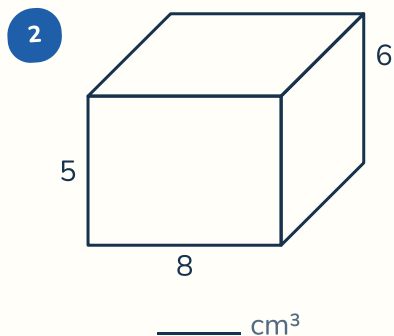
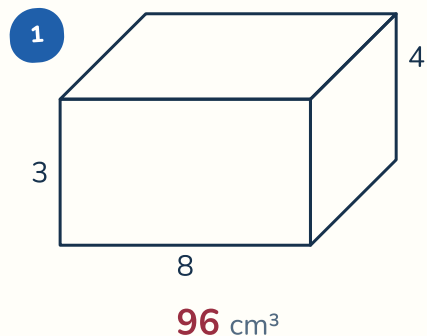


Volume — Boxes and joined boxes

Name: _____

Date: _____

Find the volume of each box. All lengths are in centimeters.



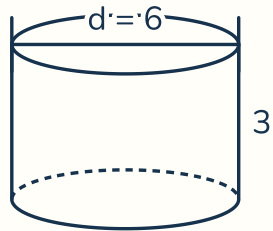
Cylinder volume — Radius or diameter

Name: _____

Date: _____

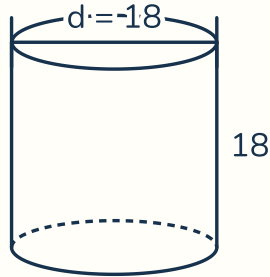
Find the volume of each cylinder. Use $\pi = 3.14$.

1

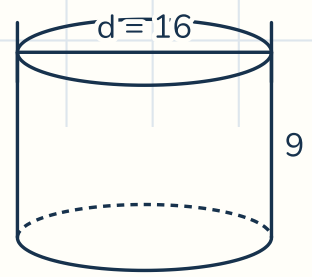


84.78

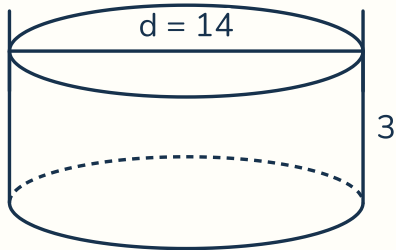
2



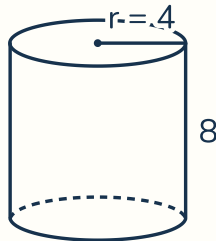
3



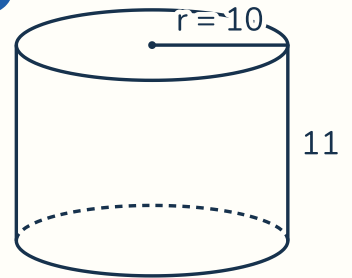
4



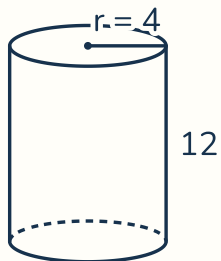
5



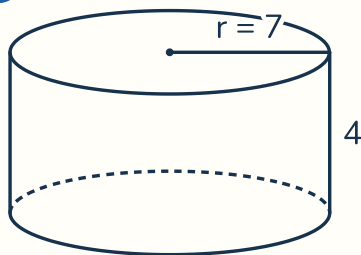
6



7



8





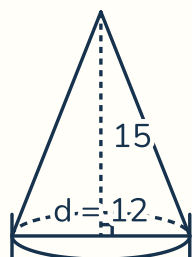
Cone volume — Radius or diameter

Name: _____

Date: _____

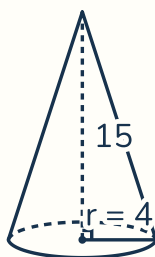
Find the volume of each cone. Use $\pi = 3.14$.

1

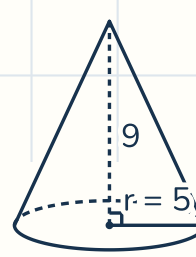


565.2

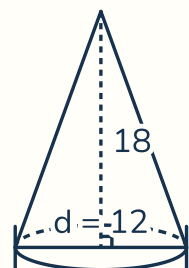
2



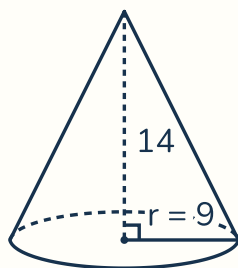
3



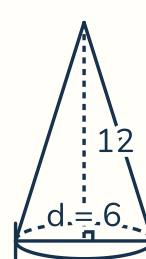
4



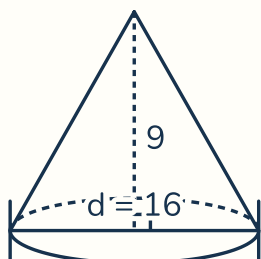
5



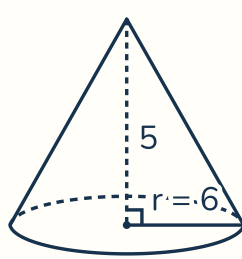
6



7



8





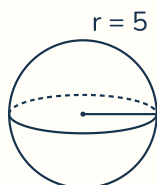
Sphere volume — Radius or diameter

Name: _____

Date: _____

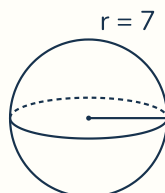
Find the volume of each sphere. Use $\pi = 3.14$. Round to the hundredth.

1

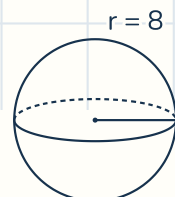


523.33

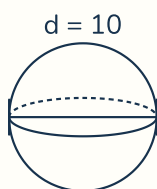
2



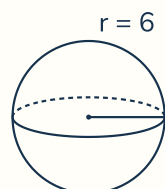
3



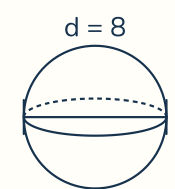
4



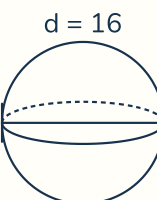
5



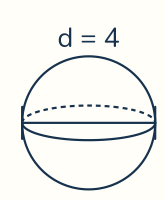
6



7



8





Power Pack · Volume — Answer key

Volume

- | | | | |
|--|--|--|--|
| 1. $8 \times 4 \times 3$: 96 cm ³ | 2. $8 \times 6 \times 5$: 240 cm ³ | 3. $7 \times 7 \times 4 + 3 \times 7 \times 4$: 280 cm ³ | 4. $7 \times 3 \times 3$: 63 cm ³ |
| 5. $7 \times 7 \times 6$: 294 cm ³ | 6. $7 \times 7 \times 6 + 4 \times 7 \times 5$: 434 cm ³ | 7. $5 \times 3 \times 8 + 4 \times 3 \times 3$: 156 cm ³ | 8. $4 \times 3 \times 8 + 3 \times 3 \times 5$: 141 cm ³ |

Cylinder volume

- | | | | |
|---|--|---|--|
| 1. $d = 6$, $h = 3$: 84.78 cm ³ | 2. $d = 18$, $h = 18$: 4578.12 cm ³ | 3. $d = 16$, $h = 9$: 1808.64 cm ³ | 4. $d = 14$, $h = 3$: 461.58 cm ³ |
| 5. $r = 4$, $h = 8$: 401.92 cm ³ | 6. $r = 10$, $h = 11$: 3454 cm ³ | 7. $r = 4$, $h = 12$: 602.88 cm ³ | 8. $r = 7$, $h = 4$: 615.44 cm ³ |

Cone volume

- | | | | |
|---|--|--|---|
| 1. $d = 12$, $h = 15$: 565.2 cm ³ | 2. $r = 4$, $h = 15$: 251.2 cm ³ | 3. $r = 5$, $h = 9$: 235.5 cm ³ | 4. $d = 12$, $h = 18$: 678.24 cm ³ |
| 5. $r = 9$, $h = 14$: 1186.92 cm ³ | 6. $d = 6$, $h = 12$: 113.04 cm ³ | 7. $d = 16$, $h = 9$: 602.88 cm ³ | 8. $r = 6$, $h = 5$: 188.4 cm ³ |

Sphere volume

- | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|
| 1. $r = 5$: 523.33 cm ³ | 2. $r = 7$: 1436.03 cm ³ | 3. $r = 8$: 2143.57 cm ³ | 4. $d = 10$: 523.33 cm ³ |
| 5. $r = 6$: 904.32 cm ³ | 6. $d = 8$: 267.95 cm ³ | 7. $d = 16$: 2143.57 cm ³ | 8. $d = 4$: 33.49 cm ³ |

