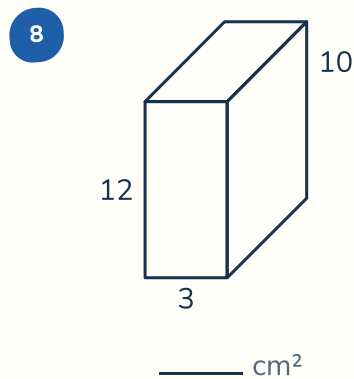
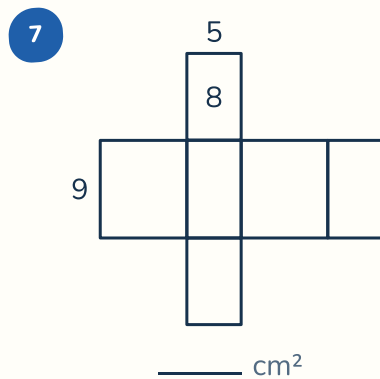
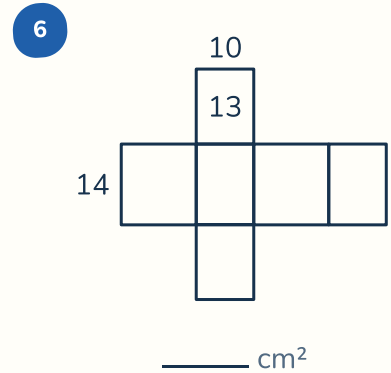
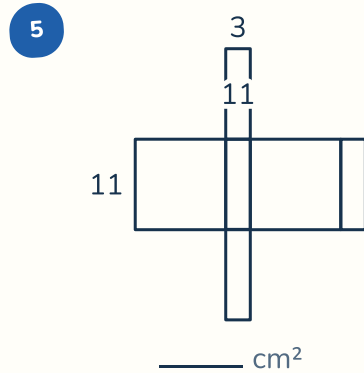
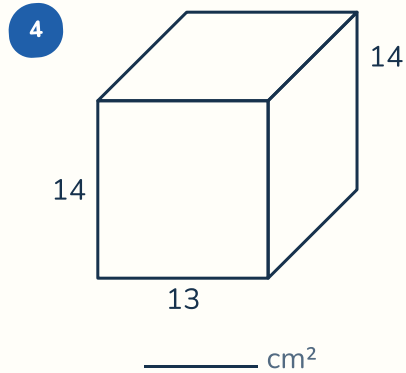
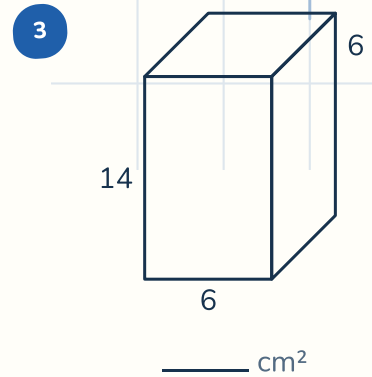
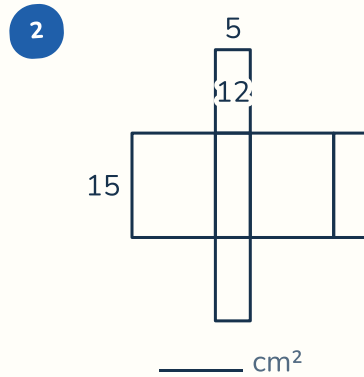
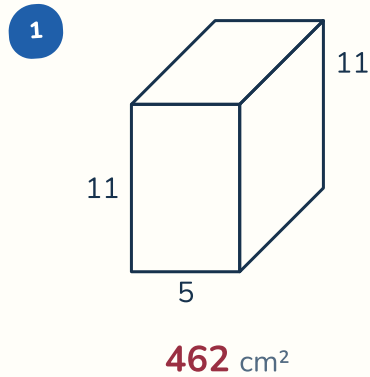


# Surface area — Boxes and nets

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Find the surface area of each box. All lengths are in centimeters.



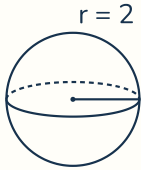
## Sphere surface area — Radius or diameter

Name: \_\_\_\_\_

Date: \_\_\_\_\_

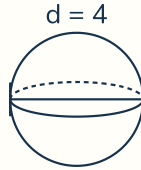
Find the surface area of each sphere. Use  $\pi = 3.14$ .

1



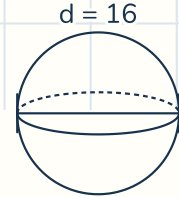
50.24 cm<sup>2</sup>

2



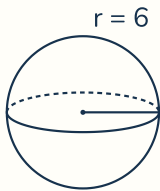
\_\_\_\_\_ cm<sup>2</sup>

3



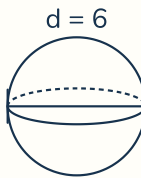
\_\_\_\_\_ cm<sup>2</sup>

4



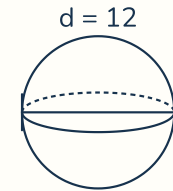
\_\_\_\_\_ cm<sup>2</sup>

5



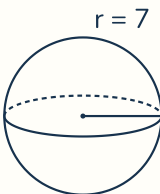
\_\_\_\_\_ cm<sup>2</sup>

6



\_\_\_\_\_ cm<sup>2</sup>

7



\_\_\_\_\_ cm<sup>2</sup>

8



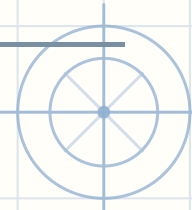
\_\_\_\_\_ cm<sup>2</sup>



# Geometry — Missing edge

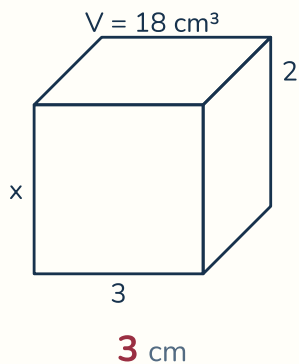
Name: \_\_\_\_\_

Date: \_\_\_\_\_

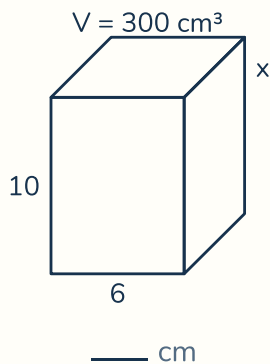


The volume of each box is shown. Find the missing edge, in centimeters.

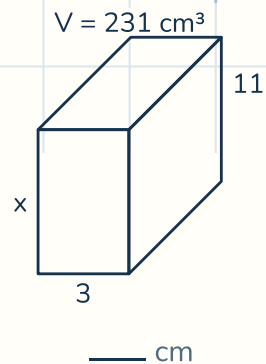
1



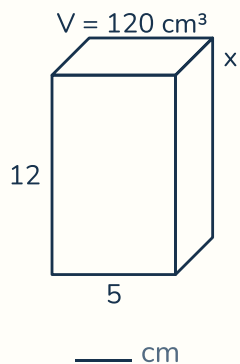
2



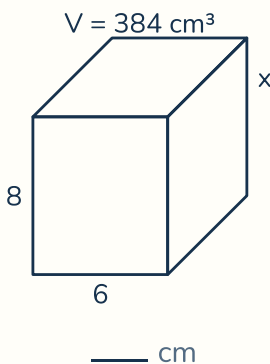
3



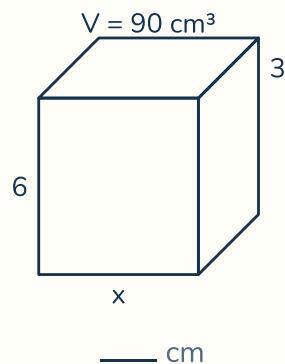
4



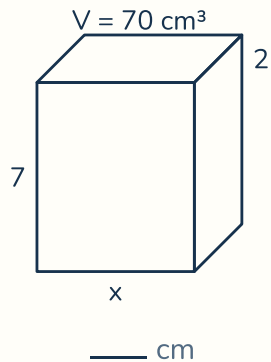
5



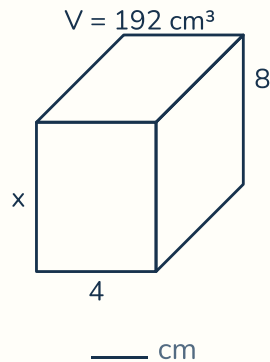
6



7



8



# Power Pack · Surface area — Answer key

## Surface area

1.  $5 \times 11 \times 11 \rightarrow 2(55 + 55 + 121): 462 \text{ cm}^2$

2.  $5 \times 12 \times 15 \rightarrow 2(60 + 75 + 180): 630 \text{ cm}^2$

3.  $6 \times 6 \times 14 \rightarrow 2(36 + 84 + 84): 408 \text{ cm}^2$

4.  $13 \times 14 \times 14 \rightarrow 2(182 + 182 + 196): 1120 \text{ cm}^2$

5.  $3 \times 11 \times 11 \rightarrow 2(33 + 33 + 121): 374 \text{ cm}^2$

6.  $10 \times 13 \times 14 \rightarrow 2(130 + 140 + 182): 904 \text{ cm}^2$

7.  $5 \times 8 \times 9 \rightarrow 2(40 + 45 + 72): 314 \text{ cm}^2$

8.  $3 \times 10 \times 12 \rightarrow 2(30 + 36 + 120): 372 \text{ cm}^2$

## Sphere surface area

1.  $r = 2: 50.24 \text{ cm}^2$

2.  $d = 4: 50.24 \text{ cm}^2$

3.  $d = 16: 803.84 \text{ cm}^2$

4.  $r = 6: 452.16 \text{ cm}^2$

5.  $d = 6: 113.04 \text{ cm}^2$

6.  $d = 12: 452.16 \text{ cm}^2$

7.  $r = 7: 615.44 \text{ cm}^2$

8.  $r = 5: 314 \text{ cm}^2$

## Missing edge

1.  $V 18: 3 \times x \times 2 \rightarrow x = 3$

2.  $V 300: 6 \times 10 \times x \rightarrow x = 5$

3.  $V 231: 3 \times x \times 11 \rightarrow x = 7$

4.  $V 120: 5 \times 12 \times x \rightarrow x = 2$

5.  $V 384: 6 \times 8 \times x \rightarrow x = 8$

6.  $V 90: x \times 6 \times 3 \rightarrow x = 5$

7.  $V 70: x \times 7 \times 2 \rightarrow x = 5$

8.  $V 192: 4 \times x \times 8 \rightarrow x = 6$

