|  |  |  |
| --- | --- | --- |
| *Calculate the surface areas* for each of the objects below. | | |
| http://www.helpingwithmath.com/printables/worksheets/geometry/area17.gif20 by 2 by 2 rectangular prism - exploded view area =   168  cm2 |  |  |
| 3m square cube3m square cube - exploded view area =   54  m2 |  |  |
| 8 by 12 by 6 rectangular prism8 by 12 by 6 rectangular prism - exploded view area =   432  cm2 |  |  |

**Rectangular Prisms**

**Fill in the missing values for a rectangular prism.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1. | |  |  |  | | --- | --- | --- | | length |  | 2 | | width |  | \_\_\_\_\_\_\_\_ | | height |  | 12 | | surface area |  | \_\_\_\_\_\_\_\_ | | volume |  | 192 | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2. | |  |  |  | | --- | --- | --- | | length |  | 10 | | width |  | 5 | | height |  | \_\_\_\_\_\_\_\_ | | surface area |  | \_\_\_\_\_\_\_\_ | | volume |  | 650 | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 3. | |  |  |  | | --- | --- | --- | | length |  | 8.1 | | width |  | \_\_\_\_\_\_\_\_ | | height |  | 14.43 | | surface area |  | \_\_\_\_\_\_\_\_ | | volume |  | 327.2724 | | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 4. | |  |  |  | | --- | --- | --- | | length |  | \_\_\_\_\_\_\_\_ | | width |  | 7.82 | | height |  | 5 | | surface area |  | \_\_\_\_\_\_\_\_ | | volume |  | 238.51 | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 5. | |  |  |  | | --- | --- | --- | | length |  | \_\_\_\_\_\_\_\_ | | width |  | 7 | | height |  | 5 | | surface area |  | 358 | | volume |  | \_\_\_\_\_\_\_\_ | | | |  |  | | --- | --- | | 6. |  | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 7. | |  |  |  | | --- | --- | --- | | length |  | 14.6 | | width |  | 1.7 | | height |  | 8 | | surface area |  | \_\_\_\_\_\_\_\_ | | volume |  | \_\_\_\_\_\_\_\_ | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 8. | |  |  |  | | --- | --- | --- | | length |  | \_\_\_\_\_\_\_\_ | | width |  | 1 | | height |  | 14 | | surface area |  | 418 | | volume |  | \_\_\_\_\_\_\_\_ | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 9. | |  |  |  | | --- | --- | --- | | length |  | 2 | | width |  | \_\_\_\_\_\_\_\_ | | height |  | 10 | | surface area |  | 190.24 | | volume |  | \_\_\_\_\_\_\_\_ | | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 10. | |  |  |  | | --- | --- | --- | | length |  | \_\_\_\_\_\_\_\_ | | width |  | 3 | | height |  | 7 | | surface area |  | 102 | | volume |  | \_\_\_\_\_\_\_\_ | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 11. | |  |  |  | | --- | --- | --- | | length |  | \_\_\_\_\_\_\_\_ | | width |  | 6 | | height |  | 12 | | surface area |  | 216 | | volume |  | \_\_\_\_\_\_\_\_ | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 12. | |  |  |  | | --- | --- | --- | | length |  | \_\_\_\_\_\_\_\_ | | width |  | 13 | | height |  | 7 | | surface area |  | 302 | | volume |  | \_\_\_\_\_\_\_\_ | | |
| |  |  | | --- | --- | | 13. | **\* This is a pre-made sheet. Use the link at the top of the page for a printable page.** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 14. | |  |  |  | | --- | --- | --- | | length |  | 4 | | width |  | 10 | | height |  | \_\_\_\_\_\_\_\_ | | surface area |  | \_\_\_\_\_\_\_\_ | | volume |  | 40 | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 15. | |  |  |  | | --- | --- | --- | | length |  | 6 | | width |  | 2.19 | | height |  | 9 | | surface area |  | \_\_\_\_\_\_\_\_ | | volume |  | \_\_\_\_\_\_\_\_ | | |

**Surface Area**

**Find the surface area of each solid to the nearest tenth. (*use http://www.edhelper.com/pi.gif= 3.14*)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1. | http://www.edhelperclipart.com/clipart/mathpri6.gif   |  |  |  | | --- | --- | --- | | a  = |  | 21 cm | | b  = |  | 42 cm | | c  = |  | 40 cm | | d  = |  | 29 cm | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2. | http://www.edhelperclipart.com/clipart/mathpri7.gif   |  |  |  | | --- | --- | --- | | a  = |  | 5 mm | | b  = |  | 12 mm | | c  = |  | 9.1 mm | | d  = |  | 13 mm | | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | 3. | http://www.edhelperclipart.com/clipart/mathcyl1.gif   |  |  |  | | --- | --- | --- | | a  = |  | 4.8 in | | b  = |  | 6 in | | |
| |  |  | | --- | --- | | 4. | **\* This is a pre-made sheet. Use the link at the top of the page for a printable page.** | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 5. | http://www.edhelperclipart.com/clipart/mathpri3.gif   |  |  |  | | --- | --- | --- | | a  = |  | 27 cm | | b  = |  | 32 cm | | c  = |  | 27 cm | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 6. | http://www.edhelperclipart.com/clipart/mathpri6.gif   |  |  |  | | --- | --- | --- | | a  = |  | 4 in | | b  = |  | 16 in | | c  = |  | 6 in | | d  = |  | 5 in | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | 7. | http://www.edhelperclipart.com/clipart/mathcyl3.gif   |  |  |  | | --- | --- | --- | | a  = |  | 14 in | | b  = |  | 10.2 in | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 8. | http://www.edhelperclipart.com/clipart/mathpri2.gif   |  |  |  | | --- | --- | --- | | a  = |  | 35 cm | | b  = |  | 15 cm | | c  = |  | 21 cm | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 9. | http://www.edhelperclipart.com/clipart/mathpri7.gif   |  |  |  | | --- | --- | --- | | a  = |  | 33 mm | | b  = |  | 56 mm | | c  = |  | 9.5 mm | | d  = |  | 65 mm | | |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 10. | http://www.edhelperclipart.com/clipart/mathpri3.gif   |  |  |  | | --- | --- | --- | | a  = |  | 3.4 mm | | b  = |  | 5.8 mm | | c  = |  | 5.8 mm | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 11. | http://www.edhelperclipart.com/clipart/mathpri2.gif   |  |  |  | | --- | --- | --- | | a  = |  | 23 in | | b  = |  | 2 in | | c  = |  | 6 in | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 12. | http://www.edhelperclipart.com/clipart/mathpri6.gif   |  |  |  | | --- | --- | --- | | a  = |  | 35 cm | | b  = |  | 43 cm | | c  = |  | 24 cm | | d  = |  | 37 cm | | |

**Surface Area**

**Find the surface area of each solid to the nearest tenth. (*use http://www.edhelper.com/pi.gif= 3.14*)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1. | http://www.edhelperclipart.com/clipart/mathpyr9.gif   |  |  |  | | --- | --- | --- | | a  = |  | 10 mm | | b  = |  | 14 mm | | c  = |  | 14 mm | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2. | http://www.edhelperclipart.com/clipart/mathpyr9.gif   |  |  |  | | --- | --- | --- | | a  = |  | 5.1 in | | b  = |  | 17 in | | c  = |  | 17 in | | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | 3. | http://www.edhelperclipart.com/clipart/mathcon1.gif   |  |  |  | | --- | --- | --- | | a  = |  | 3.9 cm | | b  = |  | 15.8 cm | | |
| |  |  | | --- | --- | | 4. |  | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | 5. | http://www.edhelperclipart.com/clipart/mathcon3.gif   |  |  |  | | --- | --- | --- | | a  = |  | 4 in | | b  = |  | 9 in | | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | 6. | http://www.edhelperclipart.com/clipart/mathcon2.gif   |  |  |  | | --- | --- | --- | | a  = |  | 2 mm | | b  = |  | 11.7 mm | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 7. | http://www.edhelperclipart.com/clipart/mathsph.gif   |  |  |  | | --- | --- | --- | | a  = |  | 10 mm | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 8. | http://www.edhelperclipart.com/clipart/mathsph.gif   |  |  |  | | --- | --- | --- | | a  = |  | 6 cm | | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | 9. | http://www.edhelperclipart.com/clipart/mathcon2.gif   |  |  |  | | --- | --- | --- | | a  = |  | 3 in | | b  = |  | 17 in | | |