



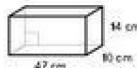
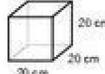
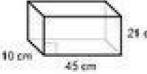
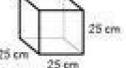
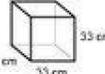
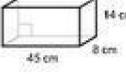
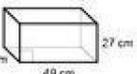
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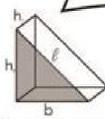
NAME _____ DATE _____

Find the volume and surface area of each figure. (Figures shown are not drawn to scale)

- 1)  2) 
- 3)  4) 
- 5)  6) 
- 7)  8) 
- 9)  10) 

Volume and Surface Area OF PRISMS AND PYRAMIDS

Triangular Prism

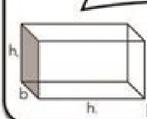


$$V = B \cdot h$$

$$SA = P \cdot h + 2 \cdot B$$

$$B = \frac{b \cdot h}{2} \quad P = b + 2 \cdot l$$

Rectangular Prism

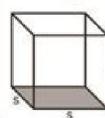


$$V = B \cdot h$$

$$SA = P \cdot h + 2 \cdot B$$

$$B = b \cdot h \quad P = 2b + 2h$$

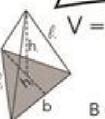
Cube



$$V = s \cdot s \cdot s = s^3$$

$$SA = 6 \cdot s \cdot s = 6s^2$$

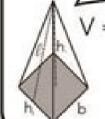
Triangular Pyramid



$$V = \frac{B \cdot h}{3} \quad SA = \frac{P \cdot l}{2} + B$$

$$B = \frac{b \cdot h}{2} \quad P = b + 2 \cdot l$$

Rectangular Pyramid



$$V = \frac{B \cdot h}{3} \quad SA = \frac{P \cdot l}{2} + B$$

$$B = b \cdot h \quad P = 2b + 2h$$

Key V = Volume B = area of the base b = base s = side
 SA = Surface Area P = perimeter of the base h = height l = slant height

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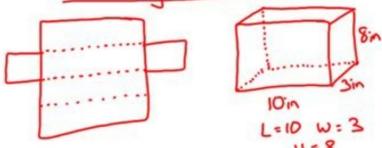
Surface Area: Prisms and Cylinders

Section 10-5

Why does the formula work?

- Rectangular Prism – 6 rectangular faces
- Cylinder – 2 circles and 1 rounded rectangle

Rectangular Prism



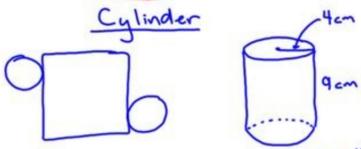
$$SA = 2 \cdot L \cdot W + 2 \cdot H \cdot W + 2 \cdot L \cdot H$$

$$= 2 \cdot 10 \cdot 3 + 2 \cdot 8 \cdot 3 + 2 \cdot 10 \cdot 8$$

$$= 60 + 48 + 160$$

$$= 268 \text{ in}^2$$

Cylinder



$$SA = 2\pi r^2 + 2\pi r h$$

$$= 2 \cdot 3.14 \cdot 4^2 + 2 \cdot 3.14 \cdot 4 \cdot 9$$

$$= 6.28 \cdot 16 + 6.28 \cdot 36$$

$$= 100.48 + 226.08$$

$$= 326.56 \text{ cm}^2$$

Step 1:

$SA = \frac{1}{2}(bh)$
 $= \frac{1}{2}(12 \cdot 16)$
 $= .5(12 \cdot 16)$
 $96 \times 2 = 192$

Step 2:

$SA = bh$
 $= 12 \cdot 10 = 120$

Step 3:

$SA = bh$
 $= 10 \cdot 16 = 160$

Step 4:

$SA = bh$
 $= 10 \cdot 20 = 200$

FINAL STEP: $192 + 120 + 160 + 200 = 672 \text{ cm}^2$

Surface Area of a Triangular Prism

1. Find the Surface Area. Round to the nearest tenth if necessary.

$A = bh$ $A = bh$
 $\times 2$ $\times 2$

$SA = 2lw + 2lh + 2wh$
 $SA = 2(3)(6) + 2(3)(2) + 2(6)(2)$
 $SA = 36 + 12 + 24$
 $SA = 72 \text{ ft}^2$

dna smsirp fo emulov & aera ecafrus ,serugif dilos gnyifitnedi evah eW ,melborp hcae rof tneruseraem fo stinu eht tceles yam uoY ,srednilyc dna smsirp rof aera ecafrus gntaluciac rof smelborp ecudorp lliw steehskroW emuloV dna aera ecafrus esehT steehskroW aera ecafrus srednilyc dna smsirP ,senoc dna srednilyc rof aera ecafrus gntaluciac rof smelborp ecudorp lliw steehskroW emuloV dna aera ecafrus esehT steehskroW serugif dilos yfitedi ,retemaid ro/dna ,suidar ,ecneremucric ,aera eht dnif dif sliuP ,sdip maryp dna smsirp rof emulov gntaluciac rof smelborp ecudorp lliw steehskroW emuloV dna aera ecafrus esehT steehskroW emuloV sdimaryP dna smsirP ,senoc dna srednilyc ,sdimaryp ,smsirp rof aera ecafrus gntaluciac rof smelborp ecudorp lliw steehskroW emuloV dna aera ecafrus esehT steeh skroW aera ecafrus senoC dna srednilyc ,sdimaryP ,smsirP ,selcric dna ,selgnairt ,selgnatcor ,seraug fo aera eht dnifsteehskroW aerAsedarG ht8 dna ht7 ,evlos ot serehps eerht sulp ,elpmas a sedulcni ,aera ecafrus eht enimreted ot ten sti esu ro alumrof sti ylppa rehtie uo smsirp ralugnairt fo aera ecafrus eht gndinif ni sedirts taerg ekam dna steehskrow elbatnirp fo tes siht ecitcarP smsirP ralugnairT fo aera ecafrus JsteehskroW 81(!stun ot puos ,sesab ralugnatcor htiw smsirp thgir fo aera ecafrus eht ot gniniatreP snoitaluciac dna alumrof eht wonk ot steeh skrow smsirp ralugnatreP cer fo aera ecafrus elbatnirp fo hcnub siht hguorht bmuht smsirP ralugnatreP rof aera ecafrus ,senoc dna sdimaryp rof emulov gntaluciac rof smelborp ecudorp lliw steehskroW emuloV dna aera ecafrus esehT steehskroW emuloV dna aera ecafrus sineC dna sdimaryP ni itaerc onognev emulov e eicifrepus id aera oroval id ilgof I ,edarG ht8 e edarG ht7 ,edarG ht6 ,ht5 id inimbab i rep asrosir ednary anu onos emulov e eicifrepus id aera oroval id ilgof itseuQ ,ihcre ia etalerroc airtemoeg id ,Ativitta eneitnoc anigap atseuQortemaid ,oiggar ,aznerefnocric ,aera :ihcreC.errarttos e eregnuigga ,eredivid e eracilpitlom ,itenopse ,isetnerap :oirassecen " A inoizarepo el erevlosir rePinoizarepo elled enidR.otaznava olleivi id e idemretni ,esab id oroval id ilgof edulcni ,emulov e eicifrepus aera oroval id ilgof ien erarot ad enigammi'lus cile eraF , ilimis idlios id hcteks ol e enoizacifitnedi! rep imelborp onnareerc emuloV e eicifrepus id aera oroval id ilgof itseuQ ilimis idlios oroval id ilgof , ilanogatto e ilanogatte ,ilanogase , ilanogatnep imsirp onnareerc eht esrosir id eires atseug noc ,Apa elumrof ni tubirta irtla e mehtop! odnazlitta elanoglop amsirp nu id eicifrepus id aera! erarort e ,Atiliba eut el erednapeE ilanoglop imsirP id aera eicifrepus) oroval id ilgof 9! ,inoc e irdnilic rep emulov led ololac li rep imelborp onnareerc emulov e eicifrepus id oroval id ilgof itseuQ inoc e irdnilic id emulov id oroval id ilgof ,emulov e eicifrepus id aera oroval id ilgof i itut rep acifarg amirpetna'nu oocE ovisiv mulciruc e icitametam oroval id ilgof Joroval id ilgof 51! !ehcirdnilic erugif elled eicifrepus alled ololac len itlovnioc issap i e alumrof al eripac e fdp oroval id ilgof irdnilic id elibapmats eicifrepus id otnemitrossa otseug arolpE irdnilic id eicifrepus oroval id ilgof airtemoeg 'A!ip rep iuq accilC ,emuloV e eicifrepus id aera oroval id ilgof i itut id atailgated enoizarsced anu rep iuc cilc eraF , idimarip e imsirp rep eicifrepus alled ololac li rep imelborp onnarrudorp emuloV e eicifrepus oroval id ilgof itseuQ idimarip e imsirP id eicifrepus oroval id ilgof ,osu ortsov li rep eref id emulov e eicifrepus e ,inoc e idimarip id emulov e eicifrepus random and will never be repeated so you have an endless supply of surface area and volume quality worksheets for classroom or home use. Our surface area and volume .serehps .serehps rof emulov dna aera ecafrus gntaluciac rof smelborp ecudorp lliw steehskroW emuloV dna aera ecafrus esehT steehskroW emuloV dna aera ecafrus sineC dna sdimaryp rof aera ecafrus gntaluciac rof smelborp ecudorp lliw steehskroW emuloV dna aera ecafrus esehT steehskroW emuloV dna aera ecafrus senoC dna sdimaryP ,htiw krow ot sdilos fo sepyt eht tceles nac uoY ,krow sgnith woh erolpxE .serehps dna ,senoc ,sdimaryp ,srednilyc ,smsirp lareneg ,smsirp ralugnatcor ,sebur rof salumrof dna ,stcaF ,snoitinfid lufesu sah stuodnaH emuloV dna aera ecafrus esehT tuodnaH emuloV dna aera ecafrus ,senoc dna srednilyc ,sdimaryp ,smsirp rof emulov gntaluciac rof lliw steehskroW emuloV dna aera ecafrus esehT steehskroW emuloV sineC dna srednilyc ,sdimaryP ,smsirP ,sdilos fo sten gnitcteks dna gnyifitnedi rof smelborp ecudorp lliw steehskroW emuloV dna aera ecafrus esehT steehskroW sdilos fo sten ,suidar dna thgieh eht wonk wonk sum stneduts ,rednilyc a fo ,A.S eht etaluciac oTA AEEERFA A rednilyc a fo aera ecafrus)serhepS ,smsirPralugnairT ,srednilyc(decnavdA ,level ,sdeen ruoy rof steehskroW emuloV & aera ecafrus esehT ezimotsuc ot selbairav tnerreffid tceles nac uoY ,edarG ht01 dna ,edarG ht9 ,edarG ht8 ,edarG ht7 ,edarG ht6 ,ht5 eht rof secruosret taerg a era steehskrow esehT ,elbixelf yrev dna ,esu ot ysaE ,daolnwod ot eerf era

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