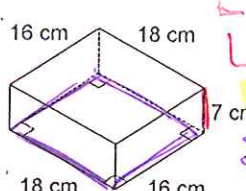
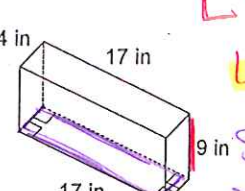
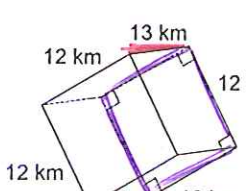


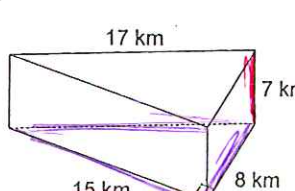
Prisms and Cylinders

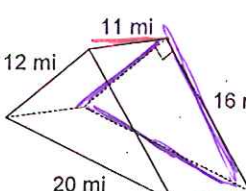
Find the surface area of each figure. Round your answers to the nearest thousandth, if necessary.

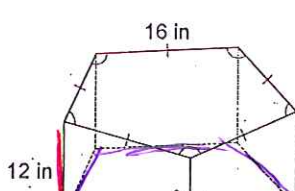
1)  $L = Pn$
 $L = 68(7)$
 $L = 476 \text{ cm}^2$
 $SA = 476 + 2(18 \cdot 16)$
 $476 + 576$
 $SA = 1052 \text{ cm}^2$

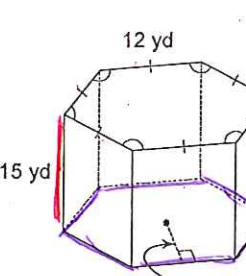
2)  $L = (42)(9)$
 $L = 378 \text{ in}^2$
 $SA = 378 + 2(68)$
 $SA = 378 + 136$
 $SA = 514 \text{ in}^2$

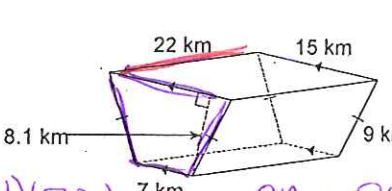
3)  $L = 48(13)$
 $L = 624 \text{ km}^2$
 $SA = 624 + 2(144)$
 $SA = 624 + 288$
 $SA = 912 \text{ km}^2$

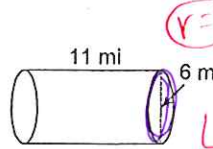
4)  $L = 40(7)$
 $L = 280$
 $SA = 280 + 2(1/2 \cdot 15 \cdot 8)$
 $SA = 280 + 120$
 $SA = 400 \text{ km}^2$

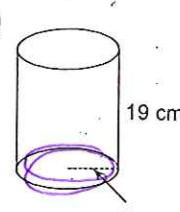
5)  $L = 48(11)$
 $L = 528 \text{ mi}^2$
 $SA = 528 + 2(1/2)(11)(12)$
 $528 + 132$
 $SA = 720 \text{ mi}^2$

6)  $L = 80(12)$
 $L = 960 \text{ in}^2$
 $SA = 960 + 2(1/2)(11)(80)$
 $SA = 960 + 880$
 $SA = 1840 \text{ in}^2$

7)  $L = 72(15)$
 $L = 1080 \text{ yd}^2$
 $SA = 1080 + 2(1/2)(10.4)(72)$
 $SA = 1080 + 748.8$
 $SA = 1828.8 \text{ yd}^2$

8)  $L = 40(22)$
 $L = 880$
 $SA = 880 + 2(1/2)(178.2)$
 $SA = 1058.2 \text{ km}^2$

9)  $L = 2\pi r h$
 $L = 2\pi(6)(11)$
 $L = 132\pi$
 $SA = L + 2\pi r^2$
 $132\pi + 2\pi(36)$
 $132\pi + 72\pi$
 $SA = 204\pi \text{ mi}^2$

10)  $L = 2\pi r h$
 $L = 2\pi(8)(19)$
 $L = 304\pi \text{ cm}^2$
 $SA = L + 2\pi r^2$
 $304\pi + 2\pi(64)$
 $304\pi + 128\pi$
 $SA = 432\pi \text{ cm}^2$

Prisms: $L = PH$ $SA = L + 2B$

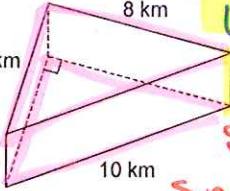
Geometry--Review

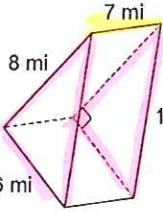
Name KM ID: 1

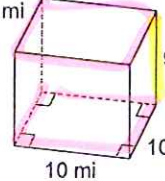
Prisms & Cylinders

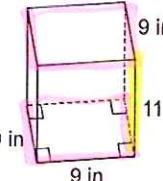
Date 3/17/10 Period

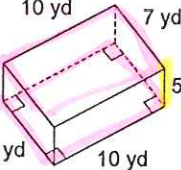
Find the surface area of each figure. Round your answers to the nearest hundredth, if necessary.

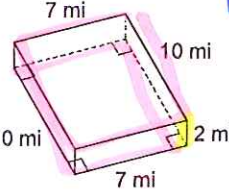
1)  $L = 24(6)$
 $L = 144 \text{ km}^2$
 $SA = L + 2B$
 $SA = 144 + 2(1/2)(6)(8)$
 $SA = 144 + 48$
 $SA = 192 \text{ km}^2$

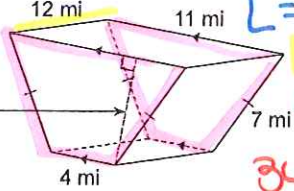
2)  $L = 24(7)$ $L = 168 \text{ mi}^2$
 $SA = L + 2B$
 $SA = 168 + 2(1/2)(6)(8)$
 $SA = 168 + 48$
 $SA = 216 \text{ mi}^2$

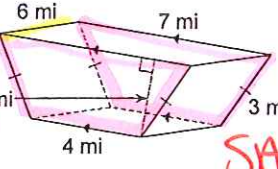
3)  $L = 40(9)$ $L = 360 \text{ mi}^2$
 $SA = 360 + 2(100)$
 $360 + 200$
 $SA = 560 \text{ mi}^2$

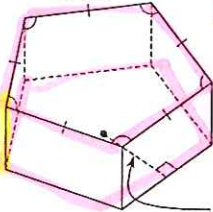
4)  $L = 36(11)$ $L = 396 \text{ in}^2$
 $SA = 396 + 2(81)$
 $396 + 162$
 $SA = 558 \text{ in}^2$

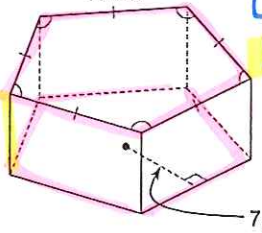
5)  $L = 34(5)$ $L = 170 \text{ yd}^2$
 $SA = 170 + 2(70)$
 $= 170 + 140$
 $SA = 310 \text{ yd}^2$

6)  $L = 34(2)$ $L = 68 \text{ mi}^2$
 $SA = 68 + 2(70)$
 $68 + 140$
 $SA = 208$

7)  $L = 29(12)$ $L = 348 \text{ mi}^2$
 $SA = 348 + 2(1/2)(15)(6.1)$
 $348 + 2(1/2) 91.5$
 $SA = 439.5$

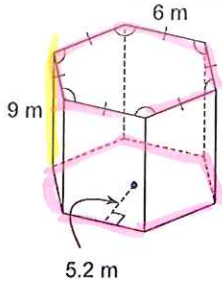
8)  $L = 17(10)$ $L = 102 \text{ mi}^2$
 $SA = 102 + 2(1/2)(11)(2.6)$
 $102 + 28.6$
 $SA = 130.6 \text{ mi}^2$

9) $P = \frac{5(6)}{30} = 1$  $L = 36(4)$ $L = 120 \text{ km}^2$
 $SA = 120 + 2(1/2)(4)(30)$
 $120 + 120$
 $SA = 240 \text{ km}^2$

10) $S(11) = 55$  $L = 55(7)$ $L = 385 \text{ cm}^2$
 $SA = 385 + 2(1/2)(7)(55)$
 $385 + 418$
 $SA = 803 \text{ cm}^2$

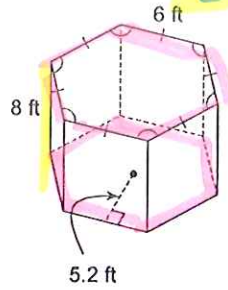
$$L = 30(a) \\ L = 324 \text{ m}^2$$

11)



$$SA = 324 + 2(1/2) \cdot 5 \cdot 2(30) \\ 324 + 2(1/2) \cdot 187.2 \\ SA = 511.2 \text{ m}^2$$

12)

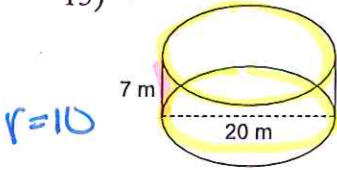


$$L = 30(b) \quad \text{Key.} \\ L = 288 \text{ ft}^2$$

$$SA = 288 + 2(1/2) \cdot 5 \cdot 2(30) \\ 288 + 2(1/2) \cdot 187.2 \\ SA = 475.2 \text{ ft}^2$$

$$L = 2\pi r h \quad \& \quad SA = L + 2\pi r^2$$

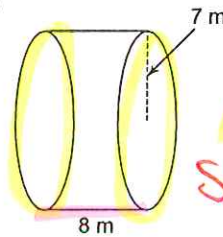
13)



$$L = 2\pi(10)(7) \\ L = 2\pi(70) \\ L = 140\pi \text{ m}^2$$

$$SA = 140\pi + 2\pi(100) \\ 140\pi + 200\pi \\ SA = 340\pi \text{ m}^2$$

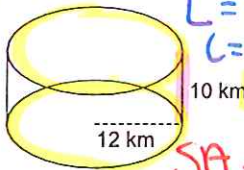
14)



$$L = 2\pi(7)(8) \\ L = 2\pi(56) \\ L = 112\pi \text{ m}^2$$

$$SA = 112\pi + 2\pi(49) \\ 112\pi + 98\pi \\ SA = 210\pi \text{ m}^2$$

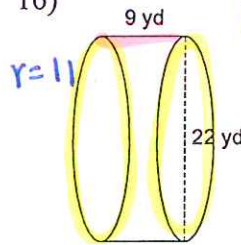
15)



$$L = 2\pi(12)(10) \\ L = 2\pi(120) \\ L = 140\pi \text{ km}^2$$

$$SA = 140\pi + 2\pi(144) \\ 140\pi + 288\pi \\ SA = 428\pi \text{ km}^2$$

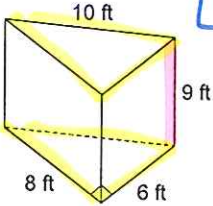
16)



$$L = 2\pi(11)(9) \\ L = 2\pi(99) \\ L = 198\pi$$

$$SA = 198\pi + 2\pi(121) \\ 198\pi + 242\pi \\ SA = 440\pi \text{ yd}^2$$

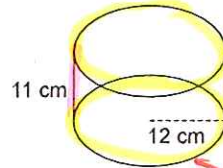
17)



$$L = 24(a) \quad L = 216 \text{ ft}^2$$

$$SA = 216 + 2(1/2) \cdot 8 \cdot 6 \\ 216 + 48 \\ SA = 264 \text{ ft}^2$$

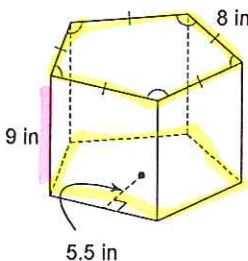
18)



$$L = 2\pi(12)(11) \\ L = 2\pi(132) \\ L = 264\pi \text{ cm}^2$$

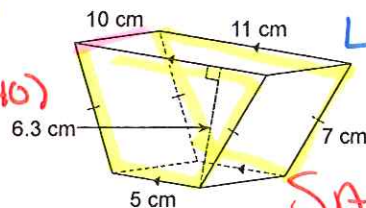
$$SA = 264\pi + 2\pi(144) \\ 264\pi + 288\pi \\ SA = 552\pi \text{ cm}^2$$

19)



$$L = 40(a) \quad L = 300 \text{ in}^2$$

$$SA = 300 + 2(1/2)(9 \cdot 5)(40) \\ 300 + 2(1/2) \cdot 220 \\ 300 + 220 \\ SA = 520 \text{ in}^2$$



$$L = 30(10) \\ L = 300 \text{ cm}^2$$

$$SA = 300 + 2(1/2)(9 \cdot 7) \cdot 40 \\ 300 + 2(1/2) \cdot 10 \cdot 20 \\ 300 + 100 \cdot 8 \\ SA = 400.8 \text{ cm}^2$$