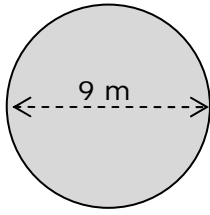


Basic Measurement Practice #4

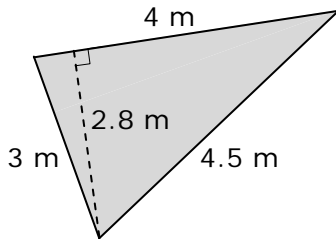
1.



Area =

Perimeter =

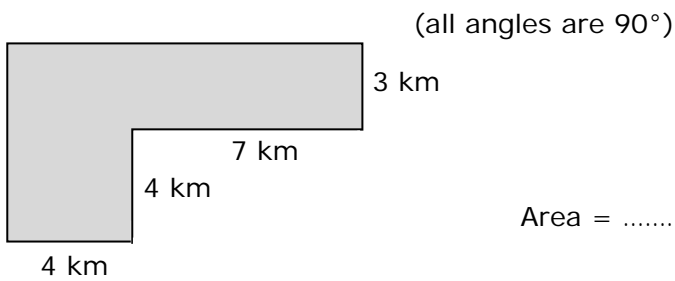
2.



Area =

Perimeter =

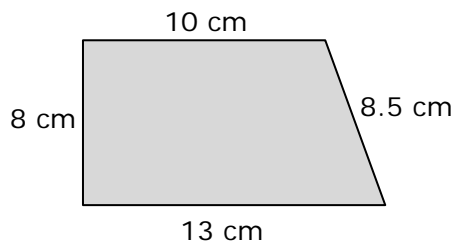
3.



Area =

Perimeter =

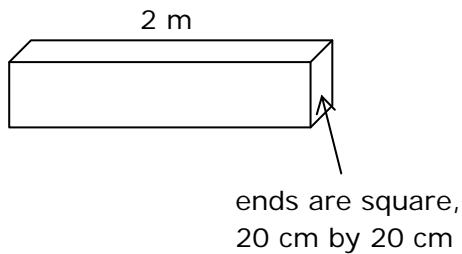
4.



Area =

Perimeter =

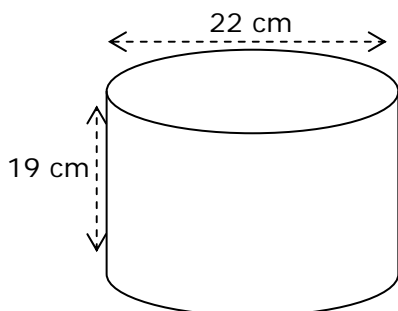
5.



Volume =

Surface Area =

6.



Volume =

Surface Area =

Answers: Basic Measurement Practice #4

Area

1. $\pi \times \text{radius}^2$
 $\pi \times 4.5^2 = 63.62 \text{ m}^2$

2. $\frac{1}{2} \times \text{base} \times \text{height}$
 $\frac{1}{2} \times 4 \times 2.8 = 5.6 \text{ m}^2$

3. subtract small rectangle from large
 $7 \times 11 - 4 \times 7 = 49 \text{ km}^2$
or divide into separate rectangles
 $4 \times 4 + 4 \times 3 + 7 \times 3 = 49 \text{ km}^2$



4. rectangle + triangle
 $8 \times 10 + \frac{1}{2} \times 3 \times 8 = 92 \text{ cm}^2$



Perimeter

$\pi \times \text{diameter}$
 $\pi \times 9 = 28.27 \text{ m}$

all sides added together
 $4 + 4.5 + 3 = 11.5 \text{ m}$

all sides added together
 $3 + 7 + 4 + 4 + 7 + 11 = 36 \text{ km}$

all sides added together
 $10 + 8.5 + 13 + 8 = 39.5 \text{ cm}$

Volume

5. base \times height \times depth
 $2 \times 0.2 \times 0.2 = 0.08 \text{ m}^3$
or
 $200 \times 20 \times 20 = 80,000 \text{ cm}^3$

6. base area \times depth
 $(\pi \times \text{radius}^2) \times d$
 $\pi \times 11^2 \times 19 = 7222.5 \text{ cm}^3$

Surface Area

4 equal rectangle sides + 2 square ends
 $4 \times (2 \times 0.2) + 2 \times (0.2 \times 0.2) = 1.68 \text{ m}^2$
or
 $4 \times (200 \times 20) + 2 \times (20 \times 20) = 16,800 \text{ cm}^2$

flat side + 2 round ends
 $(\pi \times d \times h) + (\pi \times r^2) + (\pi \times r^2)$
 $(\pi \times 22 \times 19) + (\pi \times 11^2) + (\pi \times 11^2) = 2073.5 \text{ cm}^2$

Remember to check units as well as the number answer