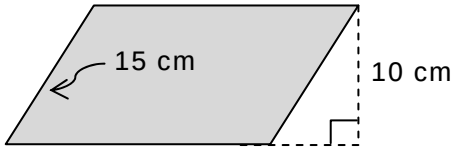
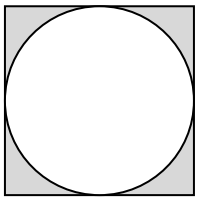
Routine Measurement Practice #1

1.



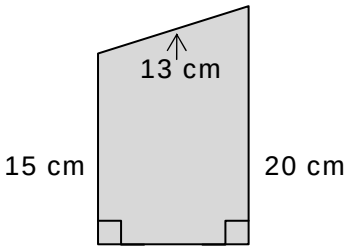
Area = ... Perimeter = ...

2.



Shaded area = ... Perimeter = ...

3.

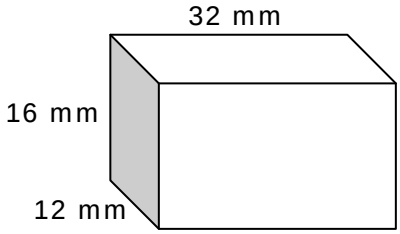


Area = ... Perimeter = ...

4.

Area = ... Perimeter = ...

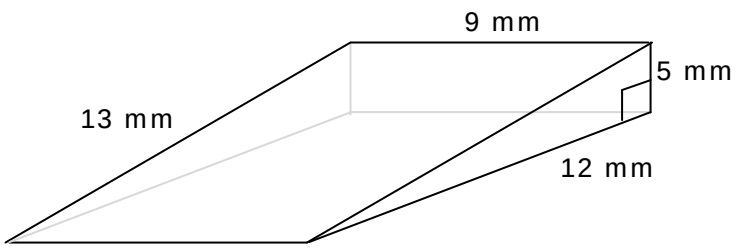
5.



(all angles are 90°)

Volume = ... Surface Area = ...

6.



Volume = ... Surface Area = ...

Answers: Routine Measurement Practice #1

	Area	Perimeter
Q1	base × height 22 × 10 = **220 cm²**	all sides added together 22 + 15 + 22 + 15 = **74 cm**
Q2	base × height – π × radius² (12 × 12) – (π × 6²) = **30.90 m²**	square = 12 × 4 = 48 m circle = π × 12 = 37.7 m total = **85.7 m**
Q3	average base × height $\frac{15+20}{2}$ × 12 = **210 cm²** **or** rectangle + triangle (15 × 12) + (½ × 5 × 12) = **210 cm²**	all sides added together 15 + 12 + 20 + 13 = **60 cm**
Q4	half circle = ½ × π × r² ½ × π × 12² = **226.2 cm²**	half circle + side = (½ × π × d) + d ½ × π × 24 + 24 = **61.7 cm**

	Volume	Surface Area
Q5	base × height × depth 12 × 16 × 32 = **6,144 mm³**	6 sides, all base × height (12 × 16) + (12 × 32) + (16 × 32) + (12 × 16) + (12 × 32) + (16 × 32) = **2,176 mm²**
Q6	base area (½ × base × height) × depth ½ × 12 × 5 × 9 = **270 mm³**	three rectangles + two triangles (5 × 9) + (12 × 9) + (13 × 9) + 2 × (½ × 12 × 5) = **330 mm²**

Remember to check units as well as the number answer