Basic Measurement Practice #2

1.

Area = ...   Perimeter = ...

2.

5 m   4 m   5 m

6 m
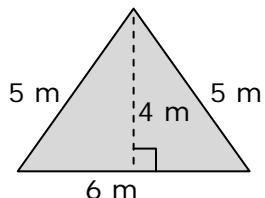
Area = ...   Perimeter = ...

3.   (all angles are 90°)

4 m   6 m

3 m

4 m   3 m

Area = ...   Perimeter = ...

4.

8 cm

Area = ...   Perimeter = ...

5.

16 m

5 m

4 m

3 m
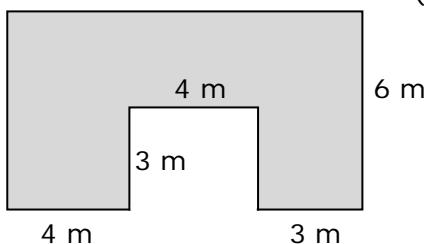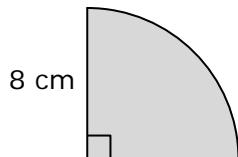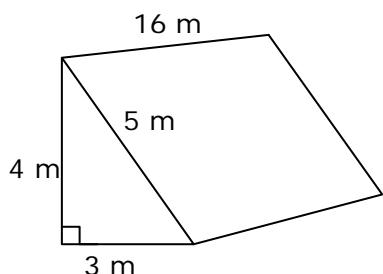
Volume = ...   Surface Area = ...

6.   5 m   (all angles are 90°)

1 m

Volume = ...   Surface Area = ...

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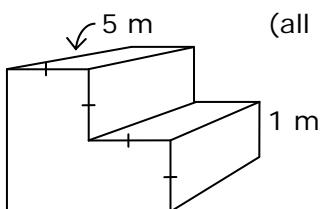
Answers: Basic Measurement Practice #2

Area	**Perimeter**

1. $\pi \times radius^2$

    $\pi \times 20^2$ = **1257 mm²**

    $\pi \times diameter$

    $\pi \times 40$ = **125.7 mm**

2. ½ × base × height

    ½ × 6 × 4   = **12 m²**

    all sides added together

    5 + 5 + 6   = **16 m**

3. subtract small rectangle from large

    6 × 11 − 3 × 4 = **54 m²**

    all sides added together

    11 + 6 + 3 + 3 + 4 + 3 + 4 + 6

              = **40 m**

4. quarter of a circle's area = ¼ π r²

    ¼ × π × 8²   = **50.3 cm²**

    quarter of circle's circumference + two sides

    (¼ × π × 16) + 8 + 8 = **28.6 cm**

Volume	**Surface Area**

5. ½ × base × height × depth

    ½ × 3 × 4 × 16 = **96 m³**

    3 rectangular sides + 2 triangular ends

    (3 × 16) + (4 × 16) + (5 × 16)

    + (½ × 3 × 4) + (½ × 3 × 4)

              = **204 m²**

6. base area (3 squares) × depth

    base = (1 × 1) + (1 × 1) + (1 × 1) = 3

    3 × 5   = **18 m³**

    4 visible and 2 hidden rectangles + 2 ends

    4 × (1 × 5) + 2 × (2 × 5) + 2 × (3)

              = **46 m²**

Remember to check units as well as the number answer