

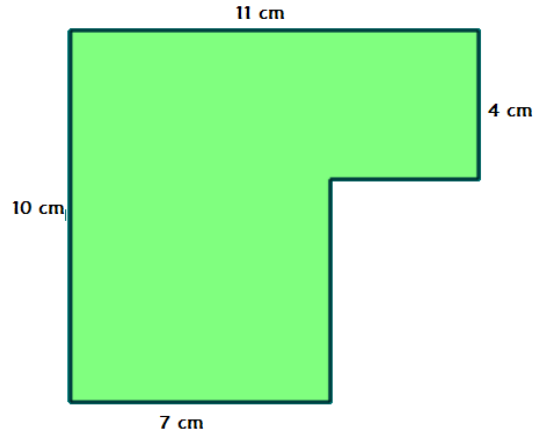


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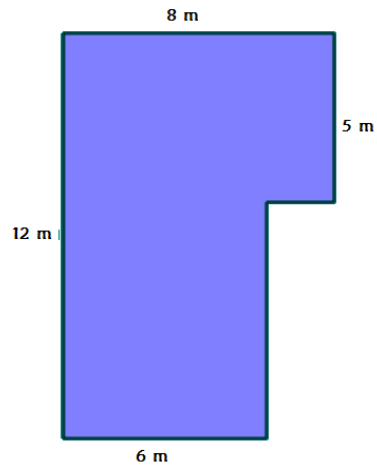
Area and perimeter

1. Calculate the area and perimeter of the given shapes.

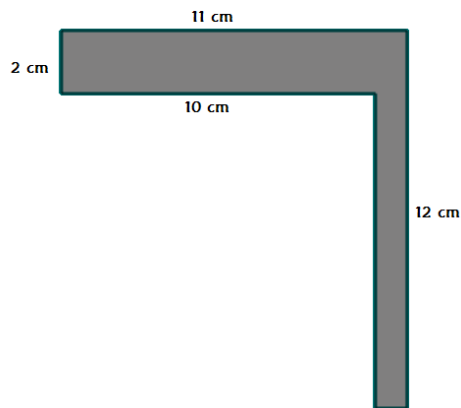
(a) Give the answers in cm and cm^2 .



(b) Give the answers in cm and cm^2 .



(c) Give the answer in mm and mm^2 .

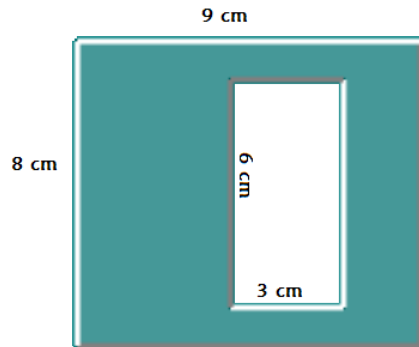




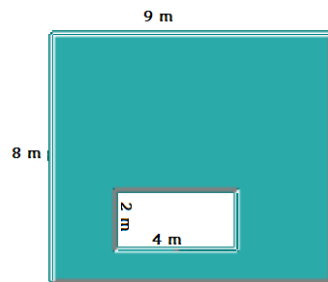
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2. Complex areas.

(a) Give the area of the shaded area in cm^2 .

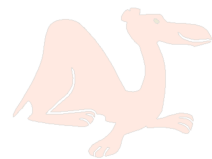
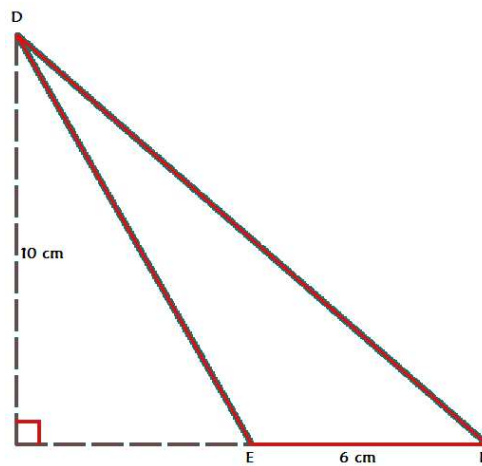


(b) Give the area of the shaded area in m^2 .



3. Calculate the area of the given triangles.

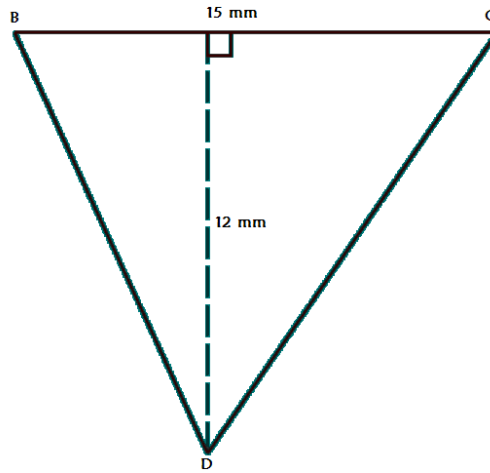
(a)



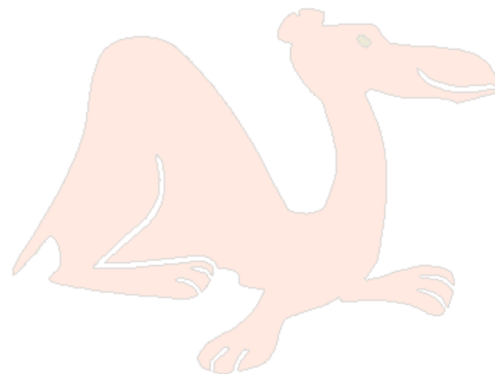
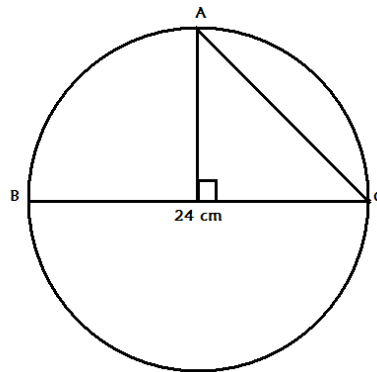


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(b)



(c)





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MEMO

1. Area and perimeter. [9.3.1.8]

(a) Perimeter = $11\text{cm} + 4\text{cm} + 3\text{cm} + 6\text{cm} + 7\text{cm} + 10\text{cm}$
= 41cm

Area = $(11\text{cm} \times 4\text{cm}) + (6\text{cm} \times 7\text{cm})$
= 86cm^2

(b) Perimeter = $8\text{m} + 5\text{m} + 2\text{m} + 7\text{m} + 6\text{m} + 12\text{m}$
= 40m
= 4000cm

Area = $(8\text{m} \times 5\text{m}) + (7\text{m} \times 6\text{m})$
= $40\text{m}^2 + 42\text{m}^2$
= 82m^2
= $820\,000\text{cm}^2$

(c) Perimeter = $11\text{cm} + 12\text{cm} + 1\text{cm} + 10\text{cm} + 10\text{cm} + 2\text{cm}$
= 46cm
= 460mm

Area = $(11\text{cm} \times 2\text{cm}) + (10\text{cm} \times 1\text{cm})$
= $22\text{cm}^2 + 10\text{cm}^2$
= 32cm^2
= 3200mm^2

2. Complex areas. [9.3.3.3]

(a) Area = $(9\text{cm} \times 8\text{cm}) - (6\text{cm} \times 3\text{cm})$
= $72\text{cm}^2 - 18\text{cm}^2$
= 54cm^2

(b) Area = $(9\text{m} \times 8\text{m}) - (2\text{m} \times 4\text{m})$
= $72\text{m}^2 - 8\text{m}^2$
= 64m^2

3. Area of triangles. [9.3.5.1; 9.3.5.2]

(a) Area = $\frac{1}{2} \times \text{base} \times \text{height}$
= $\frac{1}{2} \times 6\text{cm} \times 10\text{cm}$
= 30cm^2



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(b) Area = $\frac{1}{2} \times \text{base} \times \text{height}$
= $\frac{1}{2} \times 15 \text{ mm} \times 12 \text{ mm}$
= 90 mm^2

(c) Area = $\frac{1}{2} \times \text{base} \times \text{height}$
= $\frac{1}{2} \times 12 \text{ cm} \times 12 \text{ mm}$
= 72 cm^2

