1. Find the **area** and **circumference** of these circles

a)

3cm

b)

7cm

c)

2cm

d)

5cm

e)

3cm

f)

1cm

g)

6.5cm

h)

4.5cm
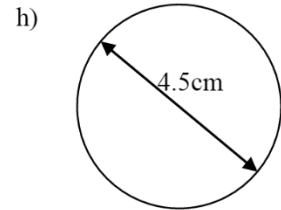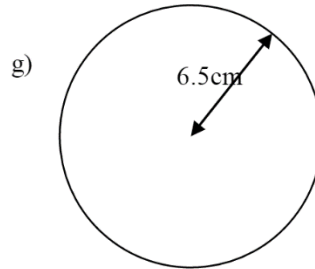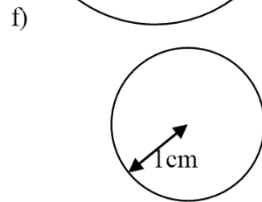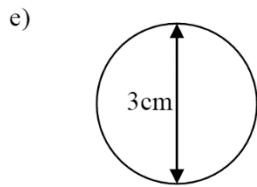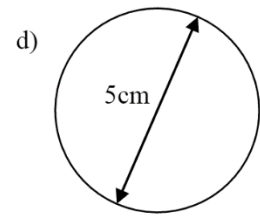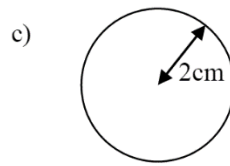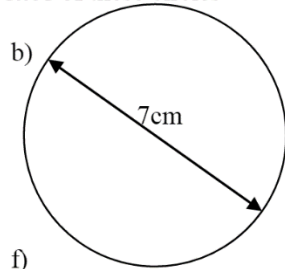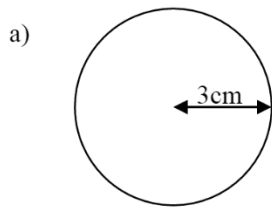
2. Find the **area** and **perimeter** of these shapes made from fractions of circles.

a)

10cm

b)

6cm

c)

5cm

d)

8cm

e)

2cm

f)

12cm

g)

5.5cm

h)

2.5cm
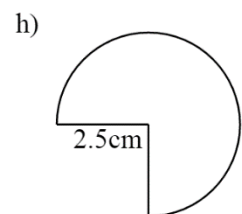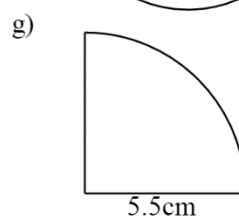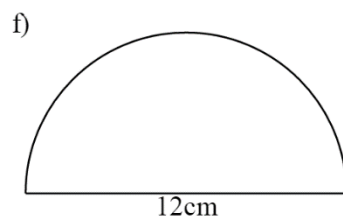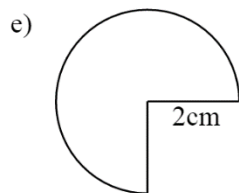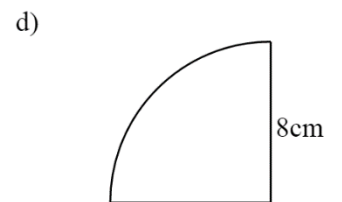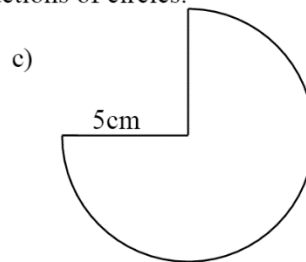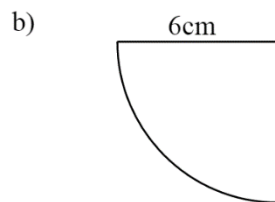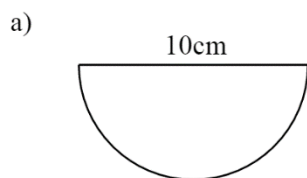
3. Work out the **area** of these shapes made from circles and rectangles.

a)

2cm

6cm

b)

1cm

5cm

c)

5cm

6cm

d)

4cm

4cm

4cm

4cm

4. Find the **missing lengths** in these circles

a)

?cm

Area = 100cm²

b)

?cm

Circumference = 314cm

c)

?cm

Area = 55cm²

d)

?cm

Circumference = 12cm

1a) Area =   28.3 cm²   Circumference = 18.8 cm

1b) Area =   38.5 cm²   Circumference = 22.0cm

1c) Area =   12.6 cm²   Circumference = 12.6 cm

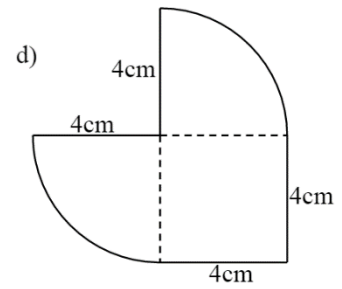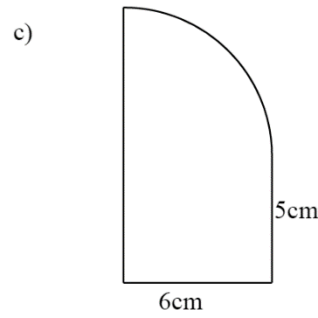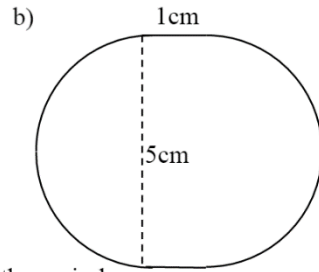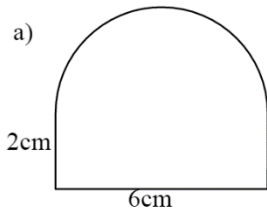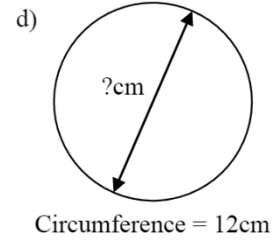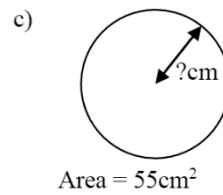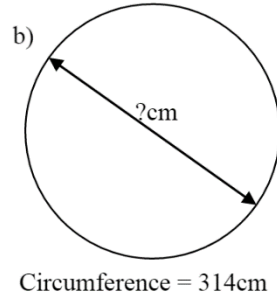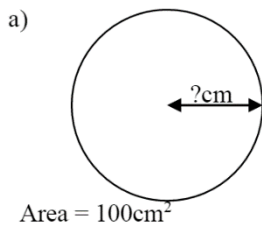1d) Area =   19.6 cm²   Circumference = 15.7 cm

1e) Area =   7.07 cm²   Circumference = 9.42 cm

1f) Area =   3.14 cm²   Circumference = 6.28 cm

1g) Area =   132.7 cm²   Circumference = 40.8 cm

1h) Area =   15.9 cm²   Circumference = 14.1 cm

2a) Area =   39.3 cm²   Perimeter = 25.7 cm

2b) Area =   28.3 cm²   Perimeter = 21.4 cm

2c) Area =   58.9 cm²   Perimeter = 33.6 cm

2d) Area =   50.3 cm²   Perimeter == 28.6 cm

2e) Area =   9.4 cm²   Perimeter = 7.14 cm

2f) Area =   56.5 cm²   Perimeter = 30.8 cm

2g) Area =   23.8 cm²   Perimeter = 45.6 cm

2h) Area =   14.7 cm²   Perimeter = 16.8 cm

3a) Area =   26.1 cm²   4a) Radius =   5.64 cm

3b) Area =   24.6 cm²   4b) Diameter = 99.9 cm

3c) Area =   58.3 cm²   4c) Radius =   4.18 cm

3d) Area =   41.1 cm²   4d) Diameter = 3.82 cm