Question 1:   Work out the surface area of each of these spheres.
Give each answer to 2 decimal places (you may use a calculator)

(a)
5cm

(b)
14cm

(c)
6cm

(d)
1.3cm

(e)
27cm

(f)
0.9mm
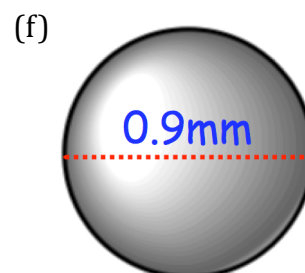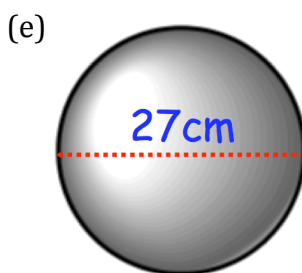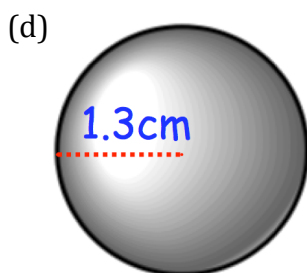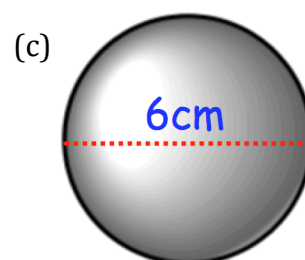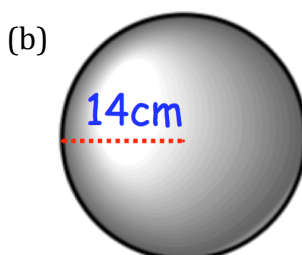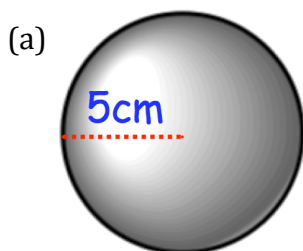
Question 2:   Find the surface area of each of these spheres.
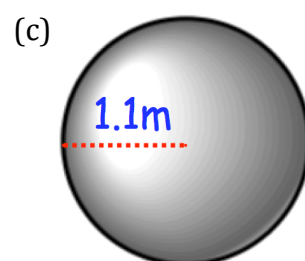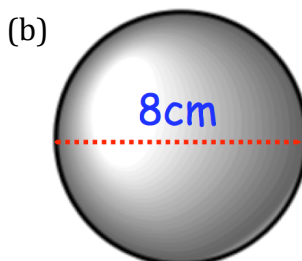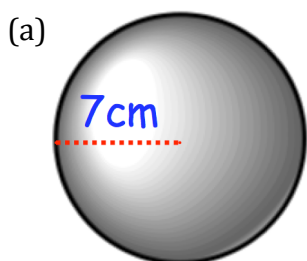Give each answer in terms of **π** (you may not use a calculator)

(a)
7cm

(b)
8cm

(c)
1.1m

Question 3:   Find the surface area of each of these spheres.
Give your answer to 3 significant figures (you may use a calculator)

(a)   A sphere with diameter 2cm   (b)   A sphere with radius 36mm
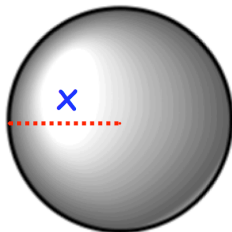
(c)   A sphere with radius 0.4m   (d)   A sphere with diameter 2.07 inches
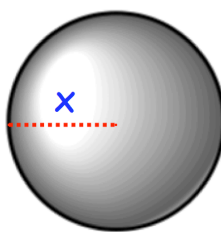
© CORBETTMATHS 2017

Question 4: Find the size of x in each of the sphere below.
Give your answers to two decimal places (you may use a calculator)
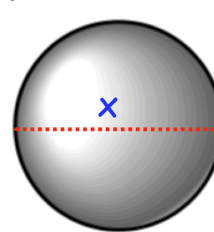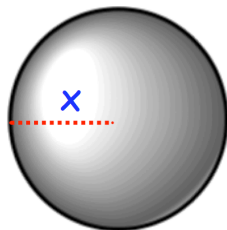
(a)

Surface area = 50cm²
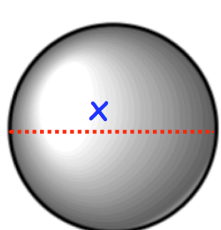
(b)

Surface area = 940cm²

(c)

Surface area = 4800cm²

Question 5: Find the size of x in each of the sphere below.
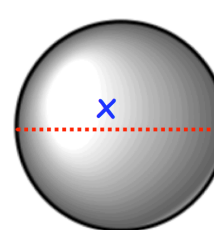You may not use a calculator
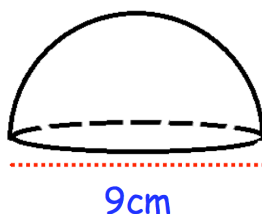
(a)

Surface area = 16π cm²

(b)

Surface area = 100π cm²

(c)

Surface area = 3600π cm²

Apply

Question 1: A glass paperweight is shown below.
The paperweight is a hemisphere with diameter 9cm.
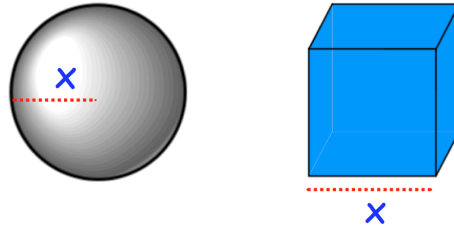Find the surface area of the paperweight

9cm

Question 2: Show the surface area of a sphere with radius 6cm is four times larger than
the surface area of a sphere with radius 3cm.

Question 3: The formula for the surface area of a sphere is $A = 4\pi r^2$
Make r the subject of the formula

Question 4: The diameter of a sphere is equal to the side length of a cube.

Peter says the surface area of the sphere is double the surface area of the cube.
Is Peter correct?

Question 5: A sphere has a radius of x.
A cylinder has a radius of x and height h.
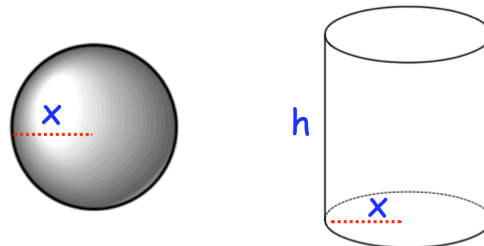
The surface area of the sphere and cylinder are equal.

Show h = x

Answers

✓ ✗

Click here

Scan here