

LESSON
8-9 **Practice**
Spheres

Find the volume of each sphere, both in terms of π and to the nearest tenth. Use 3.14 for π .

1. $r = 9$ ft.

2. $r = 21$ m

3. $d = 30$ cm

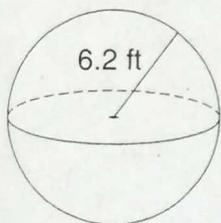
4. $d = 24$ cm

5. $r = 15.4$ in.

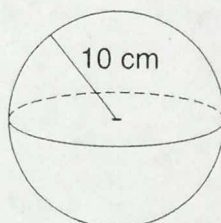
6. $r = 16.01$ ft

Find the surface area of each sphere, both in terms of π and to the nearest tenth. Use 3.14 for π .

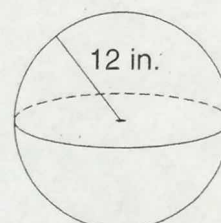
7.



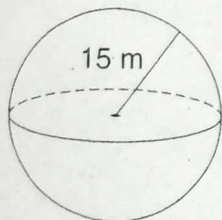
8.



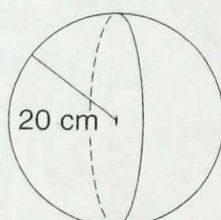
9.



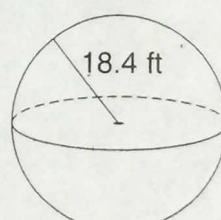
10.



11.



12.



13. In the sport of track and field, a field event is the shot put. This is a game in which a heavy ball or shot is thrown or put for distance. The shot itself comes in various sizes, weights and composition. Find the volume and surface area of a shot with diameter 5.5 cm both in terms of π and to the nearest tenth.
