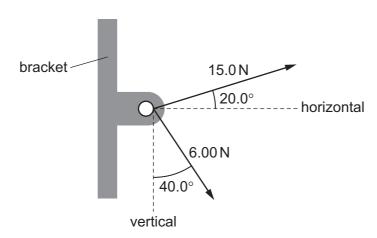
4 Two cables are attached to a bracket and exert forces as shown.



What are the magnitudes of the horizontal and vertical components of the resultant of the two forces?

	horizontal component/N	vertical component/N
Α	9.73	0.534
В	9.73	10.2
С	18.0	0.534
D	18.0	10.2

5 A student wishes to determine the density ρ of lead. She measures the mass and diameter of a small sphere of lead:

mass =
$$(0.506 \pm 0.005)$$
g

diameter =
$$(2.20 \pm 0.02)$$
 mm.

What is the best estimate of the percentage uncertainty in her calculated value of ρ ?

- **A** 1.7%
- **B** 1.9%
- **C** 2.8%
- **D** 3.7%