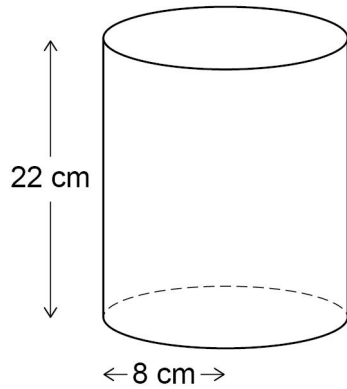**15**   A company makes two types of lampshade using fabric on wire frames.
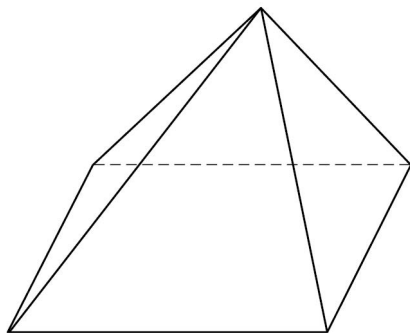
Lampshade A

Fabric is used to make the curved surface of a cylinder.
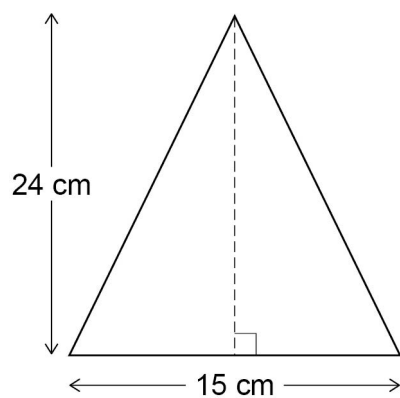
The cylinder has radius 8 cm and height 22 cm

Lampshade B

Fabric is used to make the four triangular faces of a pyramid.

Each triangular face has base 15 cm and perpendicular height 24 cm

Not drawn accurately

Do not write outside the box

Cost of fabric	£400 per square metre
Other costs for A	£3.50 per lampshade
Other costs for B	£7.50 per lampshade

Work out the ratio   cost of one lampshade A : cost of one lampshade B

Give your answer in the form $n : 1$

[5 marks]

Answer _____ : _____

5

Turn over ▶

IB/M/Nov18/8300/3H