**Unit 5 – Waves: Quiz 5a**

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1. A concave shaving mirror has a focal length of 33 cm. Calculate the image position of a cologne bottle placed in front of the mirror at a distance of 93 cm. Calculate the magnification of the image. Is the image real or virtual? Is the image inverted or upright? Draw a ray diagram to confirm your result.



 Answers:

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i = image o = object s = distance h = height M = magnification f = focal length

1. si = 51 cm ; M = 0.55, real, inverted

