Practice worksheet | Pythagoras and Trigonometry

# Similarity and fixed trigonometric ratios

Name: _____ Date: _____

6 questions | 14 marks

**1.** Compare opposite/adjacent for side pairs (3,4) and (9,12). [2 marks]

**2.** Show that opposite/hypotenuse ratios 5/13 and 15/39 agree. [2 marks]

**3.** Adjacent/hypotenuse = 4/5. Find adjacent when hypotenuse = 30 cm. [2 marks]

**4.** Opposite/adjacent = 3/4. Find opposite when adjacent = 20 m. [2 marks]

**5.** Corresponding legs are 3,4 in one triangle and 6,4 in another. Are they similar? [3 marks]

**6.** Three opposite/adjacent pairs are (6,8), (12,16) and (18,24). State the common ratio and explain. [3 marks]