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Math worksheet on *'Trigonometry - Solve Side Lengths from Values (Level 1)'*. Part of a broader unit on *'Trigonometry - Solving Triangles'*

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1 Solve for the side indicated

$$\beta = 50°$$
$$hyp = ?$$
$$opp = 9.5$$

a	b
$hyp = 13.6$	$hyp = 9.9$
c	**d**
$hyp = 12.4$	$hyp = 7.4$
e	**f**
$hyp = 14.9$	$hyp = 11.2$

2 Solve for the side indicated

$$\alpha = 50°$$
$$hyp = 6.2$$
$$opp = ?$$

a	b
$opp = 3.8$	$opp = 6.6$
c	**d**
$opp = 5.2$	$opp = 4.3$
e	**f**
$opp = 4.7$	$opp = 5.7$

3 Solve for the side indicated

$$\alpha = 55°$$
$$opp = ?$$
$$adj = 6$$

a	b
$opp = 5.1$	$opp = 9.4$
c	**d**
$opp = 12.0$	$opp = 6.9$
e	**f**
$opp = 8.6$	$opp = 7.7$

4 Solve for the side indicated

$$\theta = 45°$$
$$hyp = 11.3$$
$$adj = ?$$

a	b
$adj = 6.4$	$adj = 10.4$
c	**d**
$adj = 8.0$	$adj = 8.8$
e	**f**
$adj = 11.2$	$adj = 7.2$

5 Solve for the side indicated

$$\mu = 40°$$
$$opp = ?$$
$$hyp = 10.4$$

a	b
$opp = 6.0$	$opp = 6.7$
c	**d**
$opp = 5.3$	$opp = 8.0$
e	**f**
$opp = 7.4$	$opp = 8.7$

6 Solve for the side indicated

$$\lambda = 40°$$
$$hyp = 15.7$$
$$adj = ?$$

a	b
$adj = 14.4$	$adj = 7.2$
c	**d**
$adj = 9.6$	$adj = 8.4$
e	**f**
$adj = 12.0$	$adj = 16.8$

7 Solve for the side indicated

$$\alpha = 50°$$
$$hyp = ?$$
$$adj = 5$$

a	b
$hyp = 10.9$	$hyp = 7.8$
c	**d**
$hyp = 9.3$	$hyp = 4.7$
e	**f**
$hyp = 7.0$	$hyp = 5.4$