

Name:

Class/Set:

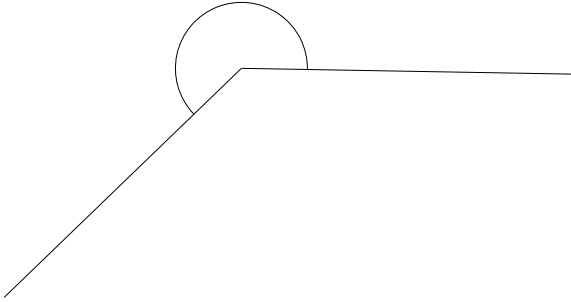
Demo Shape & Space Questions

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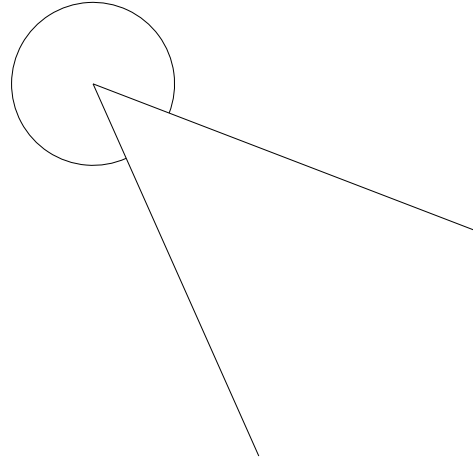
Please answer on this sheet.

1: Estimate this angle (nearest 45°).

a)

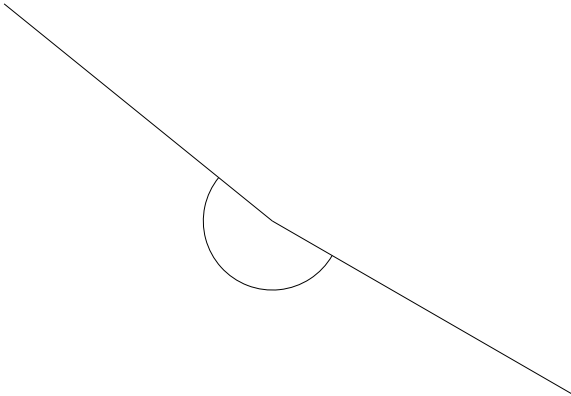


b)

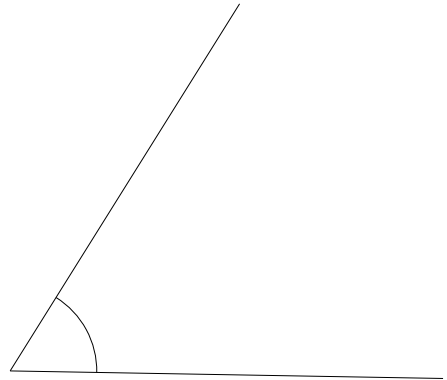


2: Measure this angle (nearest degree).

a)

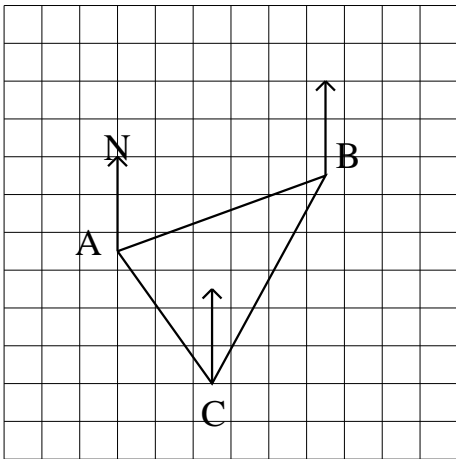


b)

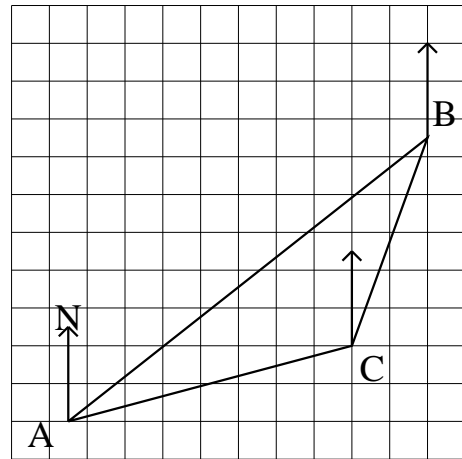


3: Measure the following three-figure bearings:

a) Bearing of C from A

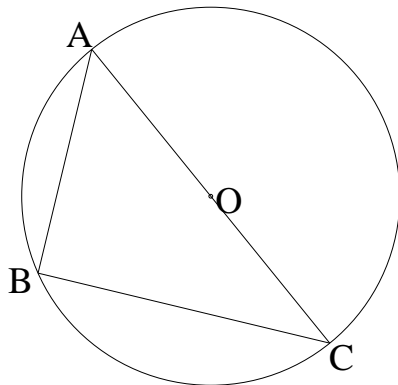


b) Bearing of B from C

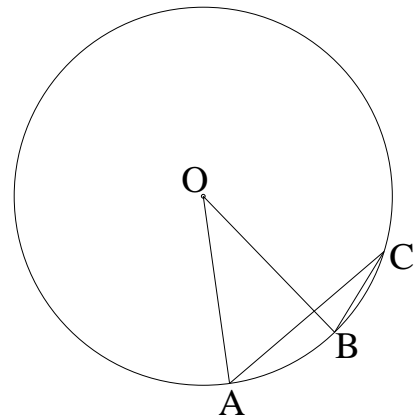


4:

a) Find $\angle ABC$.

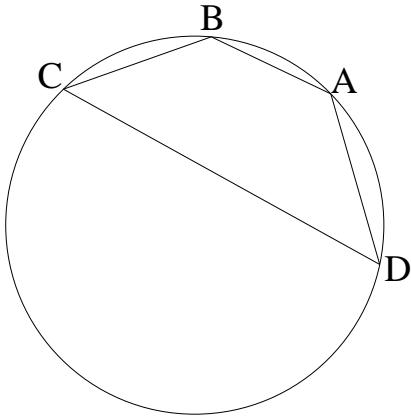


b) If $\angle AOB = 22^\circ$, find $\angle ACB$.

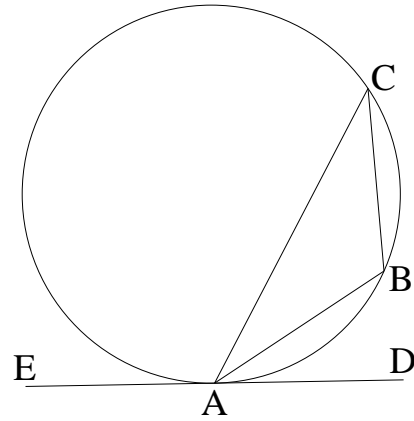


5:

a) If $\angle BAD = 126^\circ$, find $\angle BCD$.

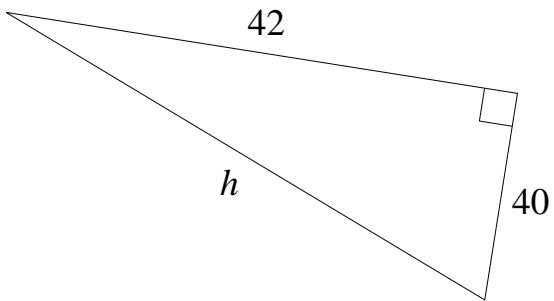


b) If $\angle ACB = 34^\circ$, find $\angle BAD$.

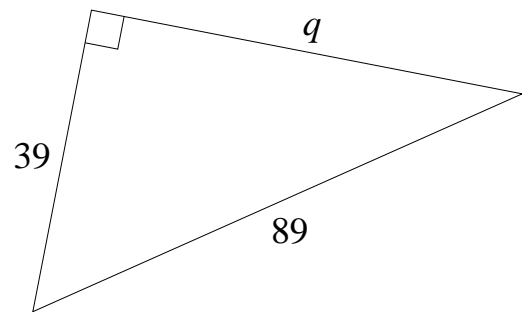


6: Find the unknown quantity (correct to 1 decimal place):

a)

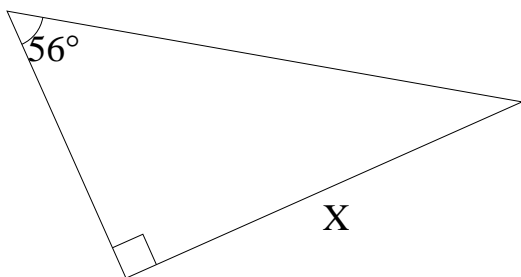


b)

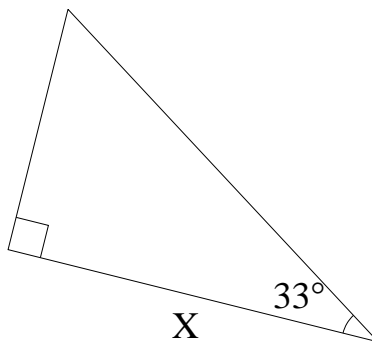


7: Give the name of the side marked X:

a)

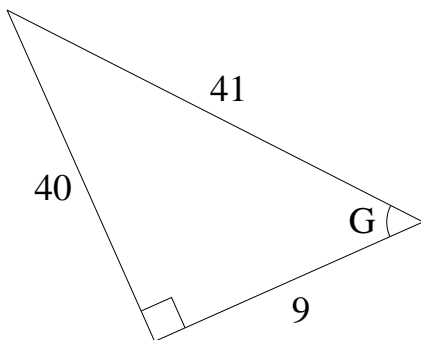


b)

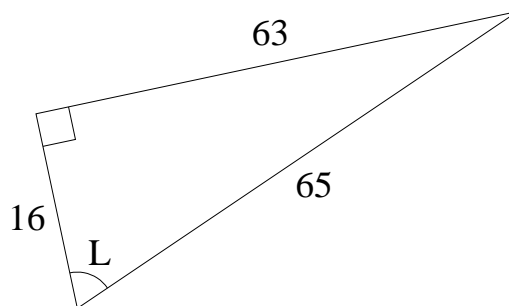


8: Find the following (answer as a simplified fraction):

a) $\sin(G)$

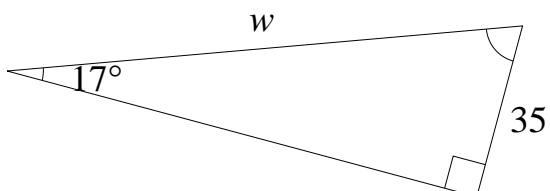


b) $\cos(L)$

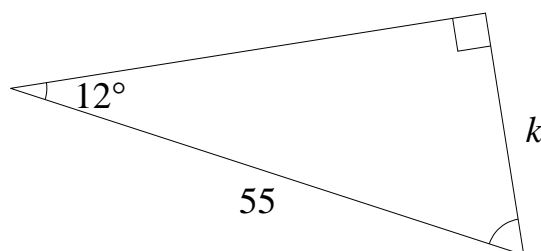


9: Find the unknown quantity (correct to 1 decimal place):

a)

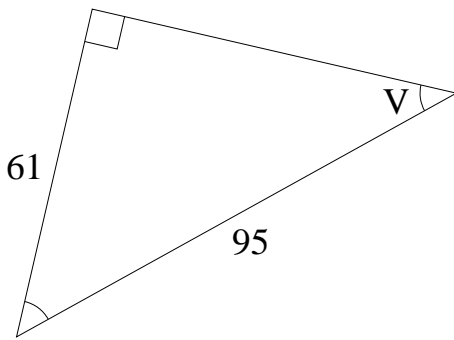


b)

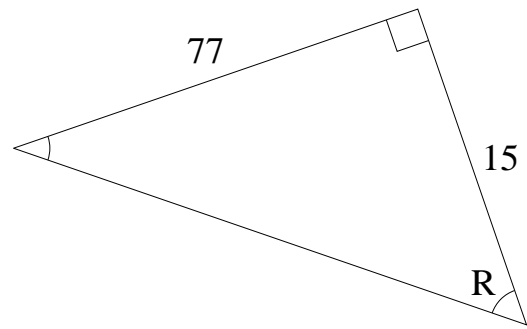


10: Find the unknown quantity (correct to 1 decimal place):

a)

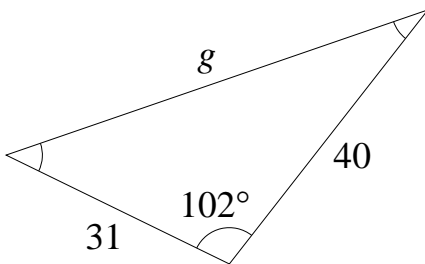


b)

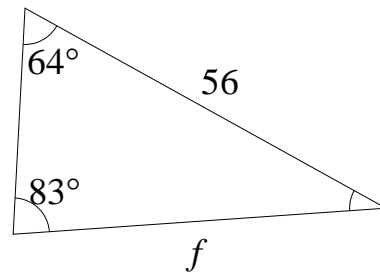


11: Find the unknown quantity (correct to 1 decimal place):

a)

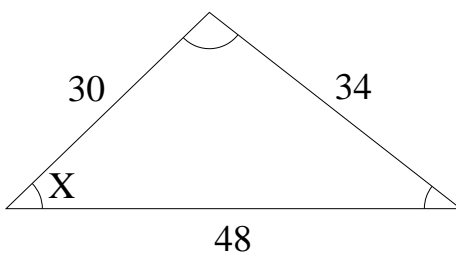


b)

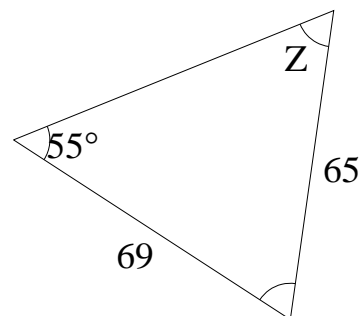


12: Find the unknown quantity (correct to 1 decimal place):

a)

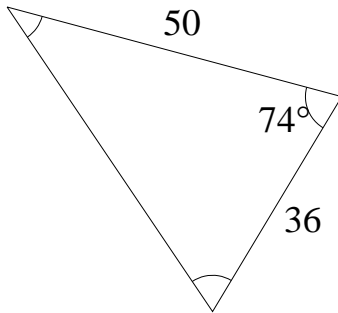


b)

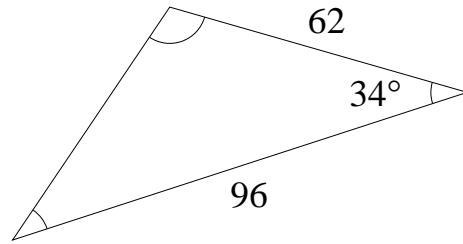


13: Find the unknown quantity (correct to 1 decimal place):

a) Calculate the area:

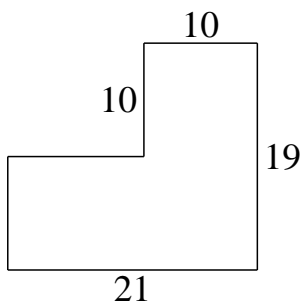


b) Calculate the area:



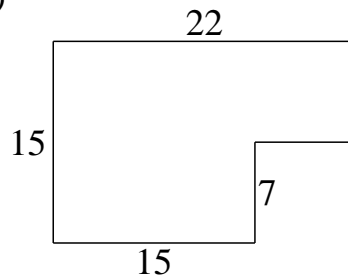
14: Work out the following:

a)



Find the perimeter.

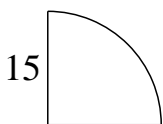
b)



Find the perimeter.

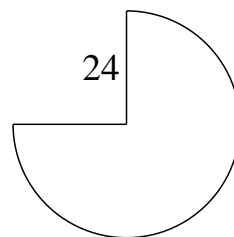
15: Work out the following:

a)



Find the area.

b)



Find the area.

Answers: Demo Shape & Space Questions

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1: a) 225°

b) 315°

2: a) 189°

b) 59°

3: a) 144°

b) 020°

4: a) 90°

b) 11°

5: a) 54°

b) 34°

6: a) $\sqrt{3364} = 58$

b) $\sqrt{6400} = 80$

7: a) Opposite

b) Adjacent

8: a) $\frac{40}{41}$

b) $\frac{16}{65}$

9: a) $w = 119.7$

b) $k = 11.4$

10: a) $V = 39.9^\circ$

b) $R = 79.0^\circ$

11: a) $g = 55.5$

b) $f = 50.7$

12: a) $X = 44.7^\circ$

b) $Z = 60.4^\circ$

13: a) Area = 865.1 units^2

b) Area = 1664.2 units^2

14: a) Perimeter = 80

b) Perimeter = 74

15: a) Area = $56.25\pi = 177$

b) Area = $432\pi = 1360$