

Name:

Class/Set:

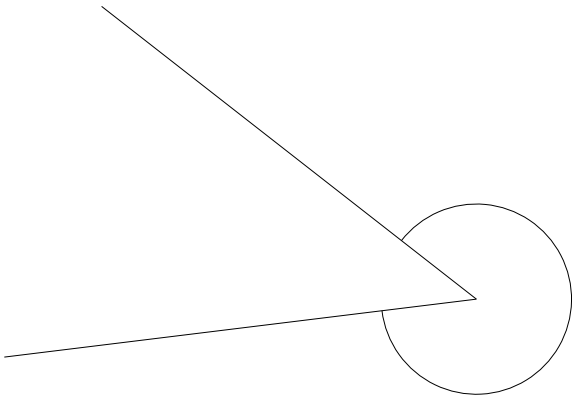
Demo Shape & Space Questions

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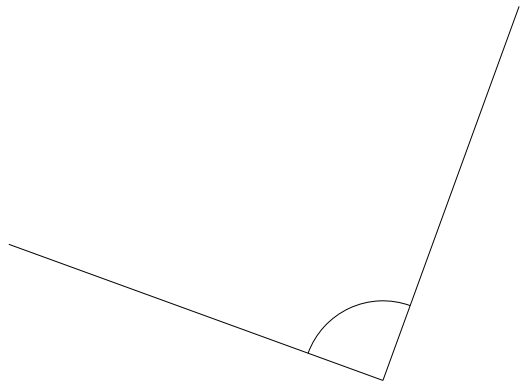
Please answer on this sheet.

1: Estimate this angle (nearest 45°).

a)

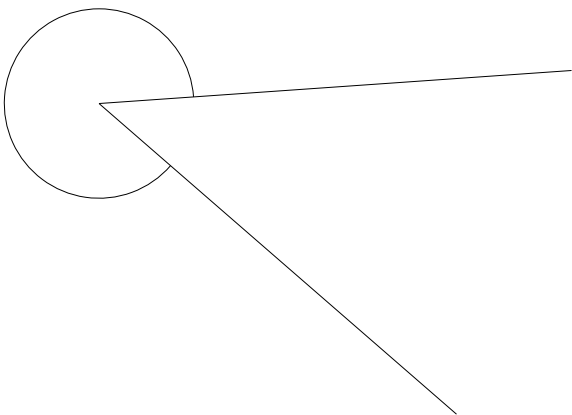


b)

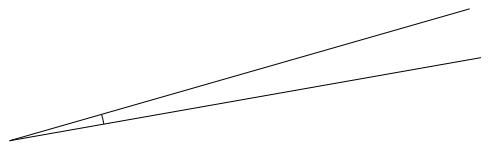


2: Measure this angle (nearest degree).

a)

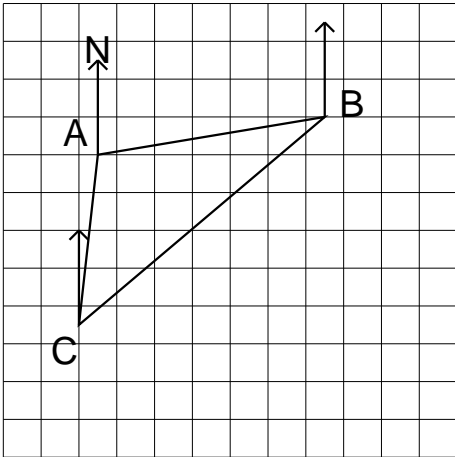


b)

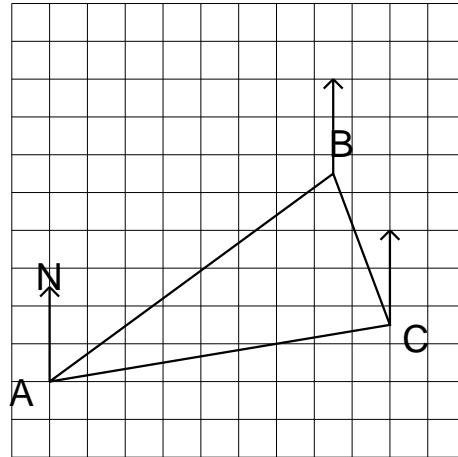


3: Measure the following three-figure bearings:

a) Bearing of B from C

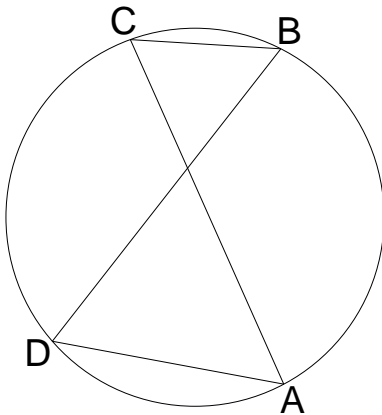


b) Bearing of B from A

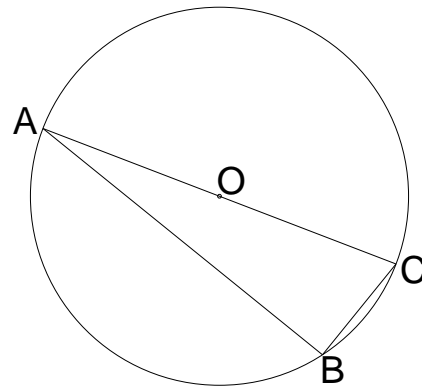


4:

a) If $\angle ACB = 67^\circ$, find $\angle ADB$.

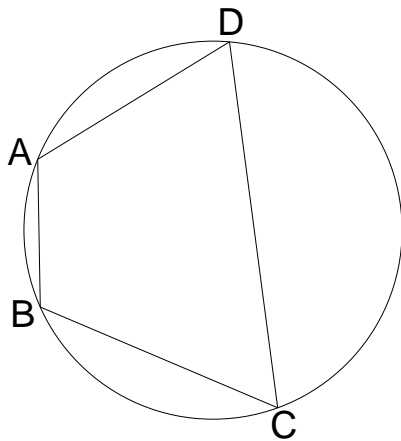


b) Find $\angle ABC$.

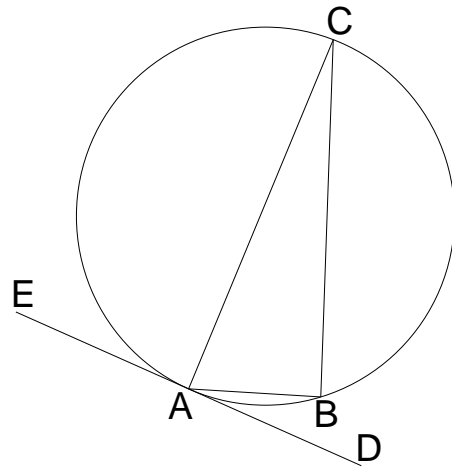


5:

a) If $\angle ADC = 68^\circ$, find $\angle ABC$.

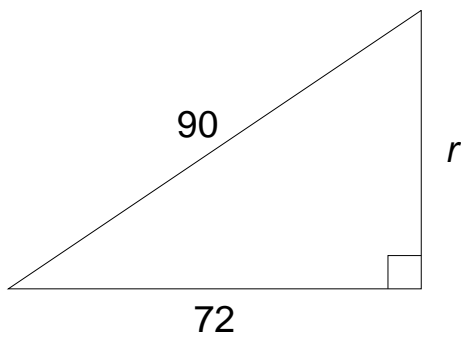


b) If $\angle BAD = 20^\circ$, find $\angle ACB$.

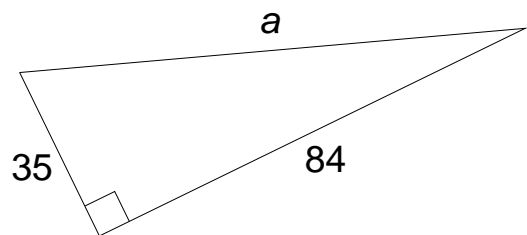


6: Find the unknown quantity (correct to 1 decimal place):

a)

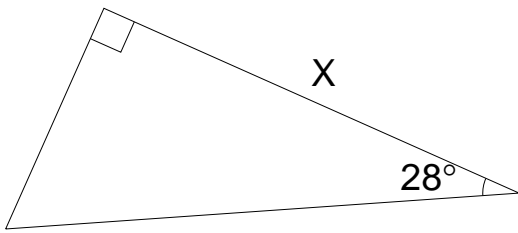


b)

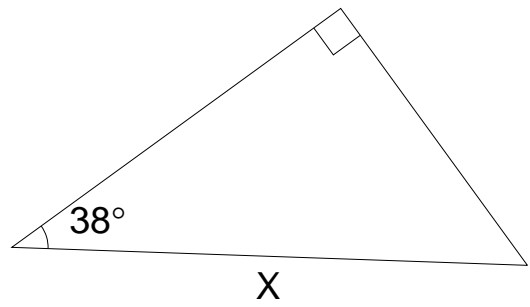


7: Give the name of the side marked X:

a)

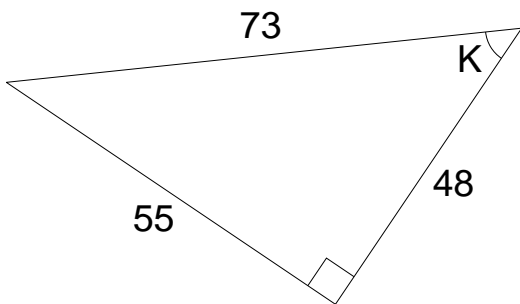


b)

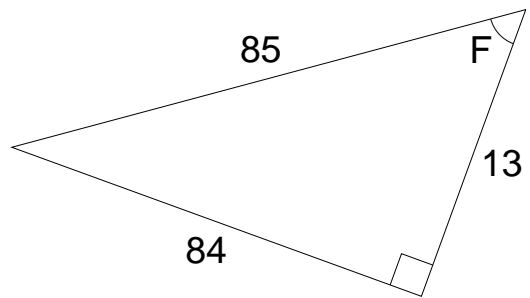


8: Find the following (answer as a simplified fraction):

a) $\tan(K)$

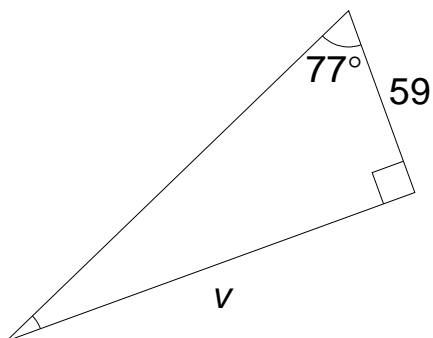


b) $\sin(F)$

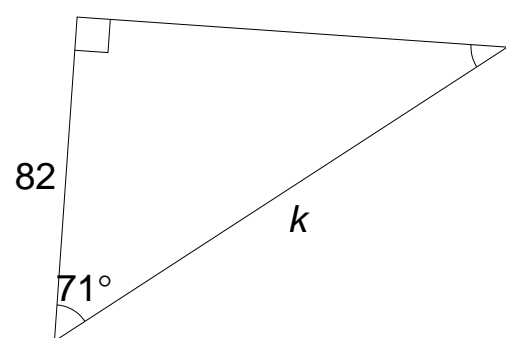


9: Find the unknown quantity (correct to 1 decimal place):

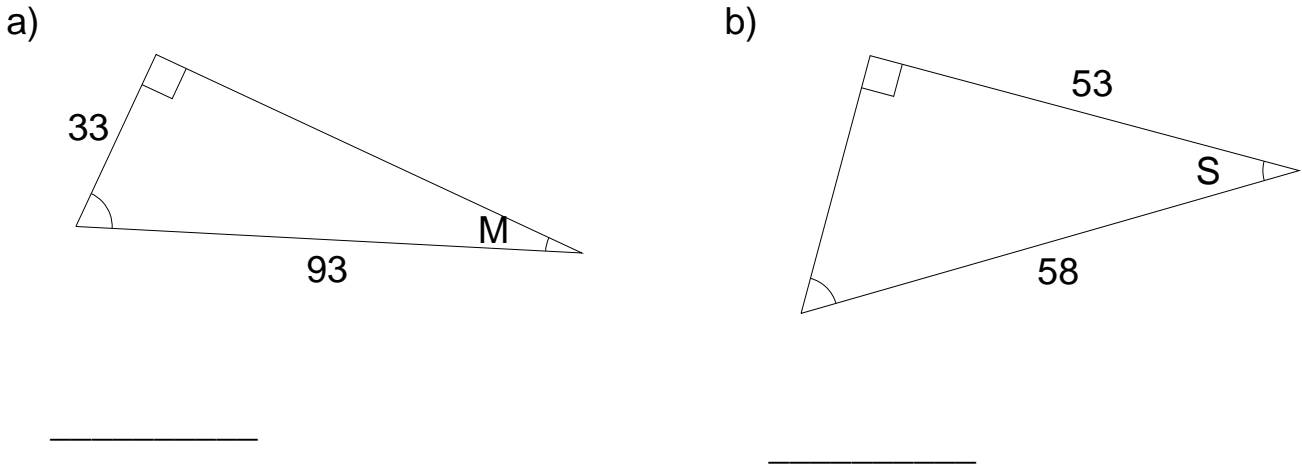
a)



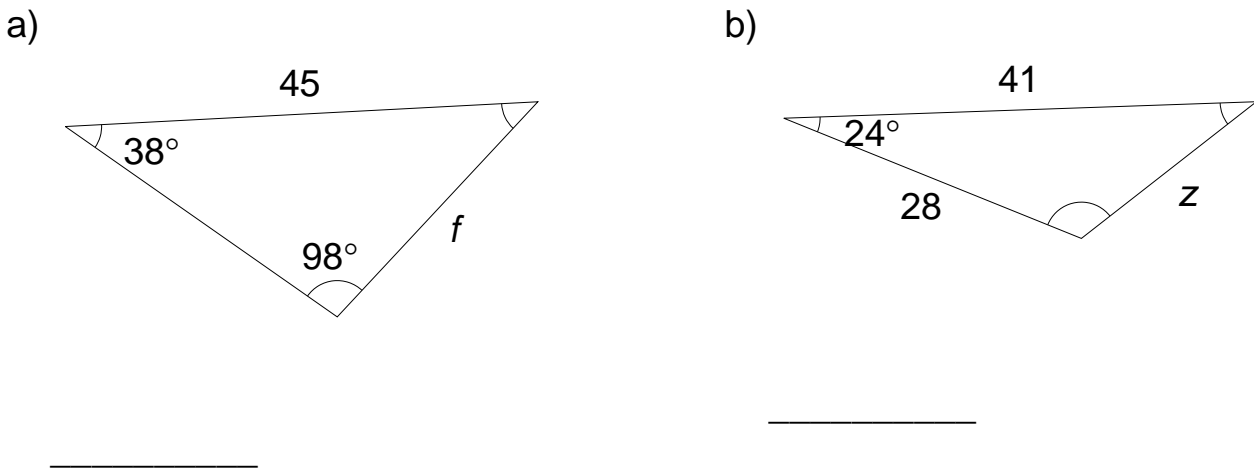
b)



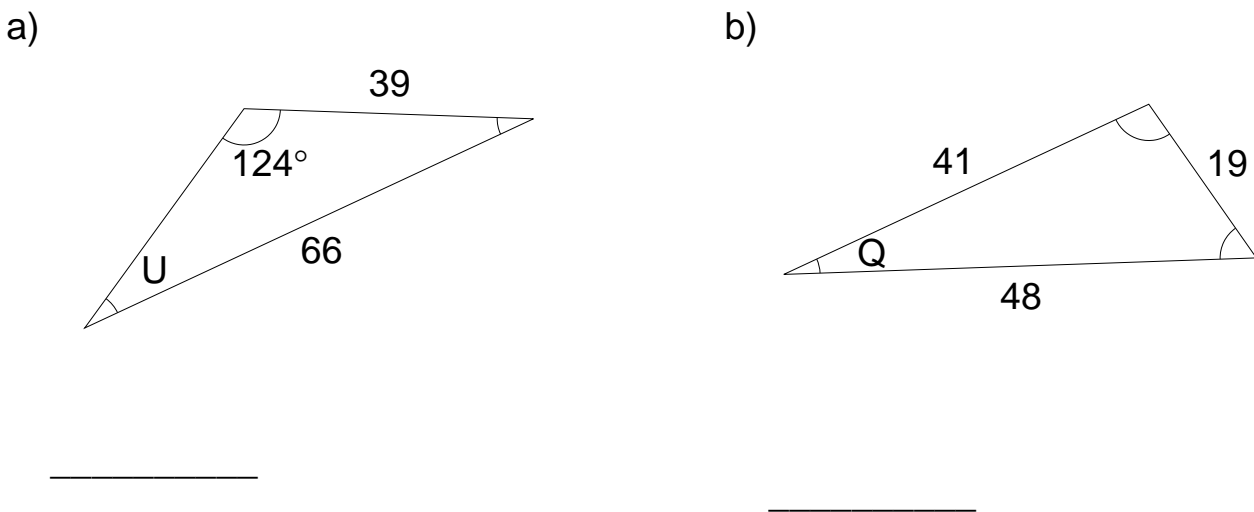
10: Find the unknown quantity (correct to 1 decimal place):



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

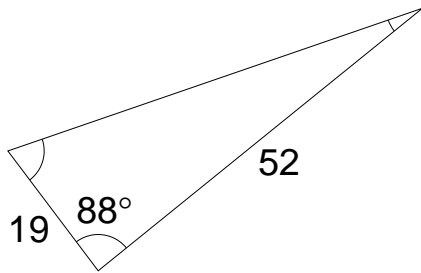


12: Find the unknown quantity (correct to 1 decimal place):

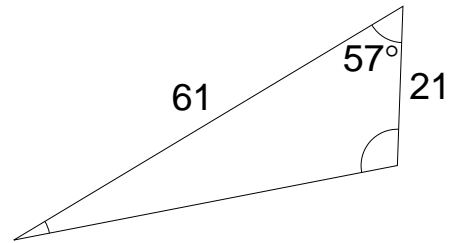


13: Find the unknown quantity (correct to 1 decimal place):

a) Calculate the area:

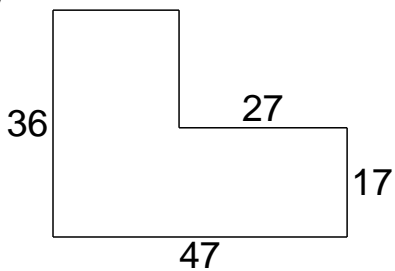


b) Calculate the area:



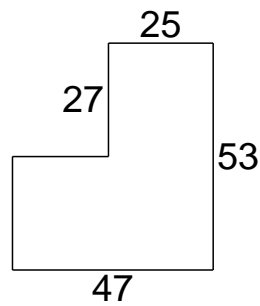
14: Work out the following:

a)



Find the perimeter.

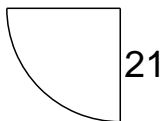
b)



Find the perimeter.

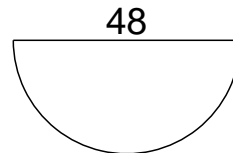
15: Work out the following:

a)



Find the area.

b)



Find the area.

Answers: Demo Shape & Space Questions

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1: a) 315° b) 90°

2: a) 315° b) 6°

3: a) 050° b) 054°

4: a) 67° b) 90°

5: a) 112° b) 20°

6: a) $\sqrt{2916} = 54$ b) $\sqrt{8281} = 91$

7: a) Adjacent b) Hypotenuse

8: a) $\frac{55}{48}$ b) $\frac{84}{85}$

9: a) $v = 255.6$ b) $k = 251.9$

10: a) $M = 20.8^\circ$ b) $S = 24.0^\circ$

11: a) $f = 28.0$ b) $z = 19.2$

12: a) $U = 29.3^\circ$ b) $Q = 23.0^\circ$

13: a) Area = 493.7 units² b) Area = 537.2 units²

14: a) Perimeter = 166 b) Perimeter = 200

15: a) Area = $110.25\pi = 346$ b) Area = $288\pi = 905$