

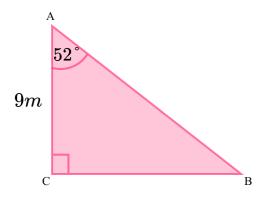
GCSE Exam Questions

SOHCAHTOA | Geometry & Measure



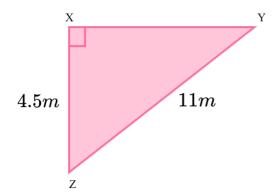
GCSE Exam Questions: SOHCAHTOA

1) (a) ABC is a right-angled triangle. AC = 9m. Angle BAC is 52° . Calculate the length of BC. Give your answer correct to 3.s.f.



(3)

(b) XYZ is a different triangle. XZ = 4.5m and YZ = 11m. Calculate the size of the angle XYZ. Give your answer correct to 3.s.f.



(3)

(6 marks)

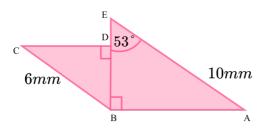
GCSE Exam Questions: SOHCAHTOA

2) The shape *ABCDE* is made from two right-angled triangles.

Angle $AEB = 53^{\circ}$

AE = 10mm

BC = 6mm



Calculate the length BE

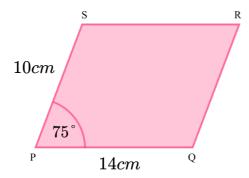
(3)

(b) DE = 2mm. Calculate the size of the angle DCB.

(4)

(7 marks)

3) *PQRS* is a parallelogram. Calculate the area of the parallelogram.



(5 marks)



GCSE Exam Questions: SOHCAHTOA Answers

	Question	Answer	Marks
1) (a)	ABC is a right-angled triangle. $AC = 9m$. Angle BAC is 52° 9m Calculate the length of BC. Give your answer correct to 3.s.f.	$tan(52) = \frac{BC}{9}$ $BC = 9 tan(52)$ $BC=11.5m$	(1) (1) (1)
(b)	XYZ is a different triangle. $XZ = 4.5m$ and $YZ = 11m$. 4.5m 11m Calculate the size of the angle XYZ . Give your answer correct to 3.s.f.	$\sin(Y) = \frac{4.5}{11}$ $Y = \sin^{-1}\left(\frac{4.5}{11}\right)$ $Y = 24.1^{\circ}$	(1) (1) (1)
2) (a)	The shape $ABCDE$ is made from two right-angled triangles. $ \begin{array}{cccccccccccccccccccccccccccccccccc$	$cos(53) = \frac{BE}{10}$ $BE = 10 cos(53)$ $BE = 6.02mm$	(1) (1) (1)



GCSE Exam Questions: SOHCAHTOA Answers

	Question	Answer	Marks
(b)	DE = 2mm. Calculate the size of the angle DCB.	BD = 6.018 2 BD = 4.018mm $sin(C) = \frac{4.018}{6}$ oe $C = 42.0^{\circ}$	(1) (1) (1) (1)
3)	PQRS is a parallelogram. Calculate the area of the parallelogram. S 10cm 75° P 14cm Q	Height of parallelogram: $\sin (75) = \frac{h}{10}$ $h = 10 \sin (75)$ $h = 9.659cm$ Area of parallelogram: 9.659×14 $= 135.2cm^{2}$	(1) (1) (1) (1) (1)

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning GCSE maths revision pages.

Scan the QR code to discover our library of FREE GCSE maths revision resources

Do you have KS4 students who need additional support in maths?



Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit <u>thirdspacelearning.com</u> to find out more.

