

# Trig Ratio Drills

Solve the triangle ABC given the following ( $C=90$  deg for all questions). Round all angles to the nearest degree and all lengths to 2 decimal places.

1.  $A = 72$  deg,  $b = 1.55$  cm.
2.  $B = 53$  deg,  $b = 3.99$  cm.
3.  $A = 54$  deg,  $b = 2.94$  cm.
4.  $A = 23$  deg,  $a = 1.95$  cm.
5.  $B = 52$  deg,  $a = 3.08$  cm.
6.  $B = 40$  deg,  $a = 3.83$  cm.
7.  $A = 10$  deg,  $b = 4.92$  cm.
8.  $B = 12$  deg,  $b = 1.04$  cm.
9.  $b = 2.03$  cm,  $c = 5$  cm.
10.  $a = 3.66$  cm,  $b = 3.41$  cm.
11.  $b = 0.52$  cm,  $c = 5$  cm.
12.  $a = 4.49$  cm,  $c = 5$  cm.
13.  $b = 4.49$  cm,  $c = 5$  cm.
14.  $a = 3.35$  cm,  $b = 3.72$  cm.
15.  $a = 4.98$  cm,  $c = 5$  cm.

## Answers

1.  $B=18$  deg,  $a=4.76$  cm,  $c=5$  cm. 2.  $A=37$  deg,  $a=3.01$  cm,  $c=5$  cm. 3.  $B=36$  deg,  $a=4.05$  cm,  $c=5$  cm. 4.  $B=67$  deg,  $b=4.6$  cm,  $c=5$  cm. 5.  $A=38$  deg,  $b=3.94$  cm,  $c=5$  cm. 6.  $A=50$  deg,  $b=3.21$  cm,  $c=5$  cm. 7.  $B=80$  deg,  $a=0.87$  cm,  $c=5$  cm. 8.  $A=78$  deg,  $a=4.89$  cm,  $c=5$  cm. 9.  $A=66$  deg,  $B=24$  deg,  $a=4.57$  cm. 10.  $A=47$  deg,  $B=43$  deg,  $c=5$  cm. 11.  $A=84$  deg,  $B=6$  deg,  $a=4.97$  cm. 12.  $A=64$  deg,  $B=26$  deg,  $b=2.19$  cm. 13.  $A=26$  deg,  $B=64$  deg,  $a=2.19$  cm. 14.  $A=42$  deg,  $B=48$  deg,  $c=5$  cm. 15.  $A=85$  deg,  $B=5$  deg,  $b=0.44$  cm.