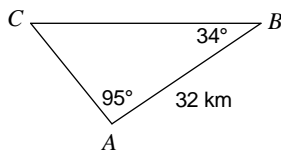


Steve Blades Worksheet

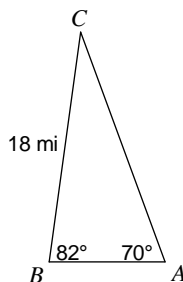
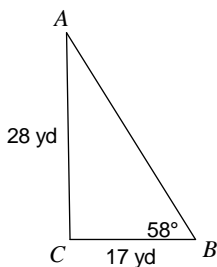
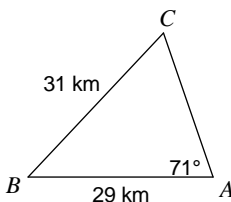
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Find each measurement indicated. Round your answers to the nearest tenth.

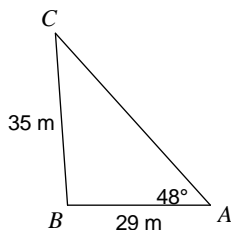
1) Find AC



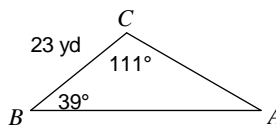
2) Find AC

3) Find $m\angle A$ 4) Find $m\angle C$ **Solve each triangle. Round your answers to the nearest tenth.**

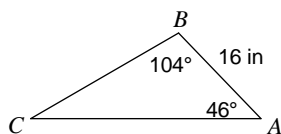
5)



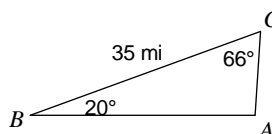
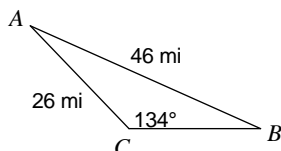
6)

**Find each measurement indicated. Round your answers to the nearest tenth.**7) $m\angle B = 22^\circ$, $m\angle A = 149^\circ$, $a = 33$ m
Find b 8) $m\angle A = 60^\circ$, $m\angle B = 90^\circ$, $c = 15$ ft
Find b 9) $m\angle A = 77^\circ$, $c = 32$ cm, $a = 38$ cm
Find $m\angle C$ 10) $m\angle B = 32^\circ$, $b = 17$ ft, $a = 5$ ft
Find $m\angle A$ **Solve each triangle. Round your answers to the nearest tenth.**11) $m\angle A = 95^\circ$, $c = 25$ cm, $a = 34$ cm12) $m\angle B = 151^\circ$, $a = 10$ in, $b = 40$ in**Find each measurement indicated. Round your answers to the nearest tenth.**

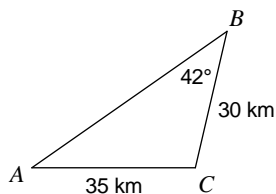
13) Find AC



14) Find AB

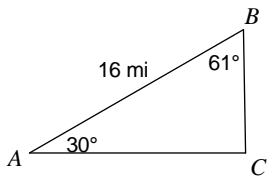
15) Find $m\angle B$ 

16) Find $m\angle A$

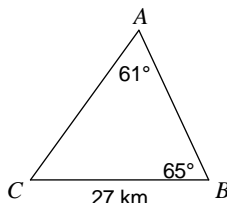


Solve each triangle. Round your answers to the nearest tenth.

17)



18)



Find each measurement indicated. Round your answers to the nearest tenth.

19) $m\angle B = 158^\circ$, $m\angle A = 12^\circ$, $a = 31$ yd
Find b

20) $m\angle A = 122^\circ$, $m\angle C = 31^\circ$, $b = 15$ m
Find a

21) $m\angle C = 124^\circ$, $b = 5$ m, $c = 34$ m
Find $m\angle B$

22) $m\angle C = 123^\circ$, $b = 34$ yd, $c = 41$ yd
Find $m\angle B$

Solve each triangle. Round your answers to the nearest tenth.

23) $m\angle A = 78^\circ$, $m\angle C = 36^\circ$, $c = 9$ ft

24) $m\angle B = 96^\circ$, $a = 9$ cm, $b = 37$ cm

State the number of possible triangles that can be formed using the given measurements.

25) $m\angle B = 23^\circ$, $a = 22$ cm, $b = 10$ cm

26) $m\angle A = 97^\circ$, $c = 13$ ft, $a = 36$ ft

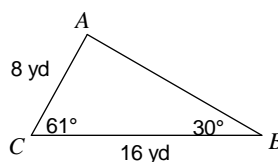
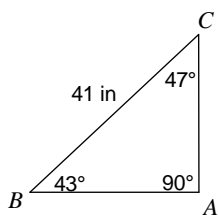
Find each measurement indicated. Round your answers to the nearest tenth.

27) $m\angle B = 86^\circ$, $a = 33$ in, $b = 20$ in
Find c

28) $m\angle B = 26^\circ$, $m\angle C = 30^\circ$, $a = 53$ mi
Find c

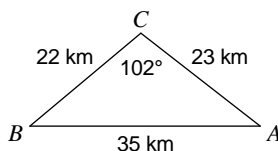
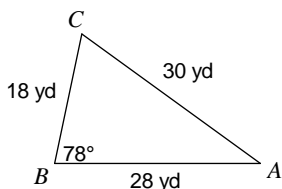
29) Find AB

30) Find AB



31) Find $m\angle A$

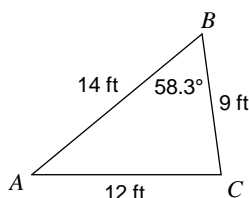
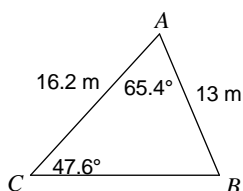
32) Find $m\angle B$



Solve each triangle. Round your answers to the nearest tenth.

33)

34)



Find each measurement indicated. Round your answers to the nearest tenth.

35) $m\angle A = 23^\circ$, $m\angle C = 123^\circ$, $c = 33$ cm, $b = 22$ cm

Find a

36) $m\angle A = 34^\circ$, $m\angle C = 57.8^\circ$, $c = 11$ in, $a = 7.3$ in

Find a

37) $m\angle A = 44^\circ$, $c = 22$ mi, $a = 24.5$ mi, $b = 35$ mi

Find $m\angle C$

38) $m\angle C = 75.3^\circ$, $c = 33$ in, $a = 28$ in, $b = 26$ in

Find $m\angle B$

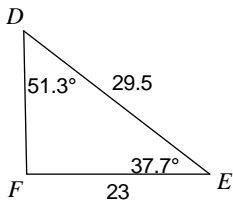
Solve each triangle. Round your answers to the nearest tenth.

39) $m\angle C = 65^\circ$, $m\angle A = 76.1^\circ$, $m\angle B = 38.9^\circ$, $b = 11$ yd

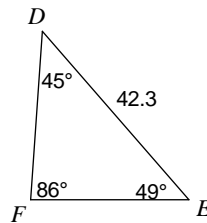
40) $m\angle B = 83.8^\circ$, $b = 22$ km, $c = 21.4$ km, $a = 8$ km

Find each measurement indicated. Round your answers to the nearest tenth.

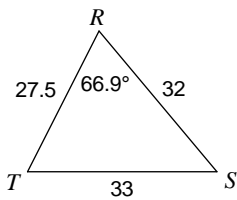
41) Find DF



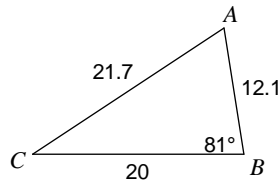
42) Find EF



43) Find $m\angle T$

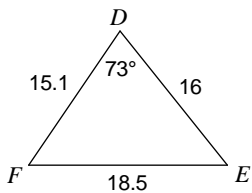


44) Find $m\angle A$



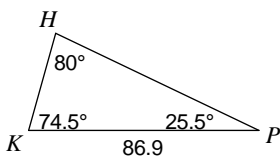
Solve each triangle. Round your answers to the nearest tenth.

45)



Find each measurement indicated. Round your answers to the nearest tenth.

46) Find HK



47) In $\triangle ZXY$, $m\angle Z = 69^\circ$, $m\angle Y = 4.6^\circ$, $x = 145$

Find z

48) In $\triangle TRS$, $m\angle T = 70^\circ$, $s = 159$, $t = 66$

Find $m\angle S$

Solve each triangle. Round your answers to the nearest tenth.

49) In $\triangle QRP$, $m\angle Q = 87^\circ$, $p = 146$, $q = 79$

State the number of possible triangles that can be formed using the given measurements.

50) In $\triangle ZXY$, $m\angle Z = 31^\circ$, $y = 195$, $z = 174$

Answers to Steve Blades Worksheet

- 1) 23 km
- 2) 19 mi
- 3) 31°
- 4) 62.2°
- 5) $m\angle B = 94^\circ$, $m\angle C = 38^\circ$, $b = 47$ m
- 6) $m\angle A = 30^\circ$, $b = 28.9$ yd, $c = 42.9$ yd
- 7) 24 m
- 8) 30 ft
- 9) 55.1°
- 10) 9°
- 11) $m\angle C = 47.1^\circ$, $m\angle B = 37.9^\circ$, $b = 21$ cm
- 12) $m\angle C = 22^\circ$, $m\angle A = 7^\circ$, $c = 30.9$ in
- 13) 31 in
- 14) 32.1 mi
- 15) 24°
- 16) 35°
- 17) $m\angle C = 89^\circ$, $b = 14$ mi, $a = 8$ mi
- 18) $m\angle C = 54^\circ$, $c = 25$ km, $b = 28$ km
- 19) 55.9 yd
- 20) 28 m
- 21) 7°
- 22) 44.1°
- 23) $m\angle B = 66^\circ$, $a = 15$ ft, $b = 14$ ft
- 24) $m\angle C = 70^\circ$, $m\angle A = 14^\circ$, $c = 35$ cm
- 25) Two triangles
- 26) One triangle
- 27) Not a triangle
- 28) 32 mi
- 29) 30 in
- 30) 14 yd
- 31) 35.9°
- 32) 40°
- 33) $m\angle B = 67^\circ$, $a = 16$ m
- 34) $m\angle C = 82^\circ$, $m\angle A = 39.7^\circ$
- 35) 15.4 cm
- 36) 7.3 in
- 37) 38.6°
- 38) 49.6°
- 39) $c = 15.9$ yd, $a = 17$ yd
- 40) $m\angle C = 75^\circ$, $m\angle A = 21.2^\circ$
- 41) 18
- 42) 30
- 43) 63.1°
- 44) 65.5°
- 45) $m\angle E = 51.2^\circ$, $m\angle F = 55.8^\circ$
- 46) 38
- 47) 141.1
- 48) Not a triangle
- 49) Not a triangle
- 50) Two triangles