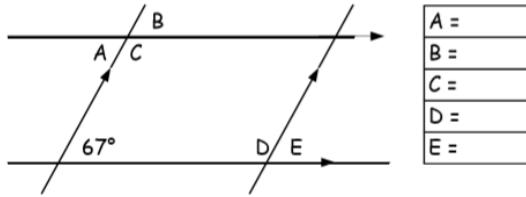
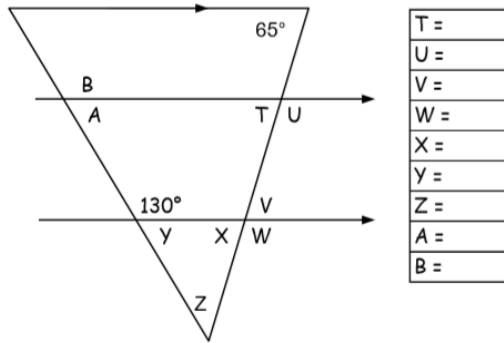


Interleaf 9

1) Find the missing angles and give reasons



2) Calculate the missing angles



3) Solve the following giving exact answers

a) $6x - 1 = 2x + 20$

b) $3x + 9 = x$

4) Some students sit an exam

The pass mark is 80%
There are 40 marks in each test.

Here are their results:

Martin 30

Gina 35

Ricky 31

Ella 38

Chloe 29

Work out the fraction of students who passed the test.

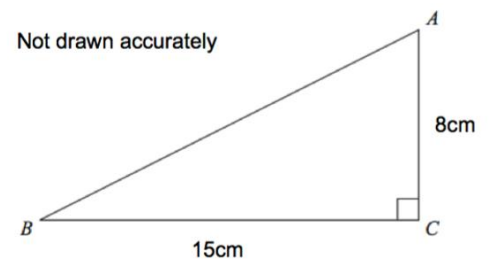
5) Round the following:

a) $3872 \rightarrow$ (1 sf)

b) $12.65 \rightarrow$ (3 sf)

c) $42.98 \rightarrow$ (1 dp)

6) Calculate the length AB



Answers

1) $A = 67^\circ, B = 67^\circ, C = 113^\circ, D = 113^\circ, E = 67^\circ$

2) $T = 65^\circ, U = 115^\circ, V = 65^\circ, W = 115^\circ, X = 65^\circ, Y = 50^\circ, Z = 65^\circ, A = 50^\circ, B = 130^\circ$

3) a) $x = \frac{21}{4} = 5\frac{1}{4} = 5.25$

b) $x = -9/2$

4) $2/5$ (pass mark is 32)

5) a) 4000

b) 12.7

c) 43.0

6) $AB = 17\text{cm}$