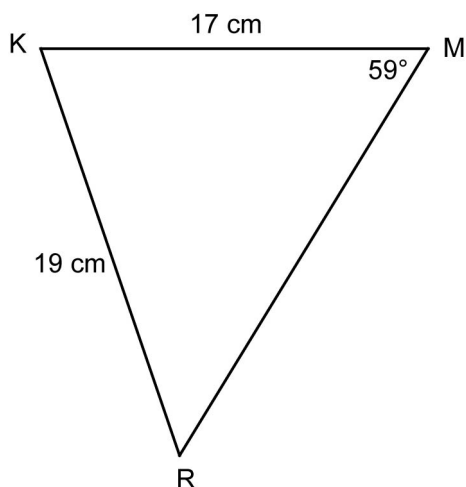


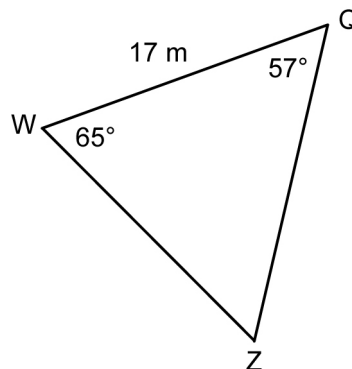
Chapter 8 Test

1. To find $\angle R$ in the following triangle, apply

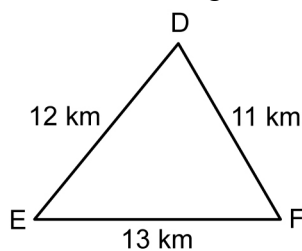


- A the sine law
 B the cosine law
 C the tangent law
 D the primary trigonometric ratios
2. The sine law states that
 A $(\sin A)(\sin B) = (a)(b)$
 B $a^2 = b^2 + c^2 - 2bc\sin A$
 C $\frac{a}{\sin A} = \frac{b}{\sin B}$
 D $\frac{a}{\sin B} = \frac{b}{\sin C}$
3. The angle of depression is
 A measured above a horizontal line
 B measured below a horizontal line
 C equal to 90°
 D equal to the angle of depression

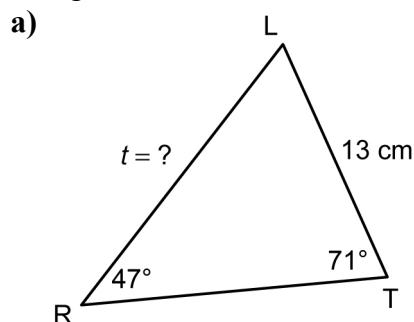
4. To solve $\triangle QWZ$, first apply



- A the primary trigonometric ratios
 B the tangent law
 C the cosine law
 D the sine law
5. The smallest angle in $\triangle DEF$ is



- A $\angle D$
 B $\angle E$
 C $\angle F$
 D impossible to determine
6. Find the length of the indicated side in each triangle, to the nearest tenth of a unit.

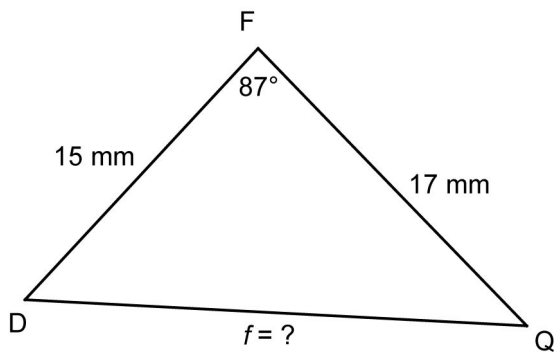


Name: _____

Date: _____

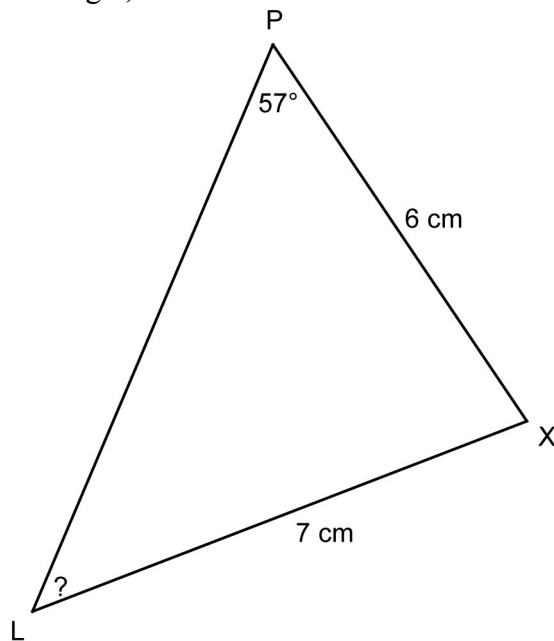
BLM 8-14
(page 2)

b)

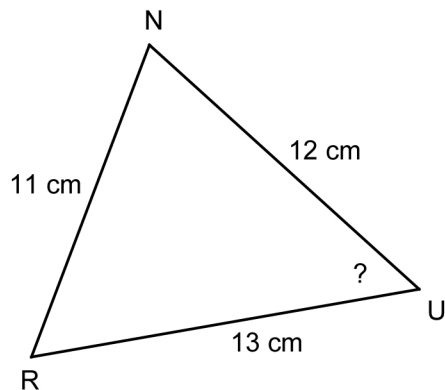


7. Find the measure of the indicated angle in each triangle, to the nearest tenth of a unit.

a)



b)



8. Use **Technology** Check your answers to question 7 using dynamic geometry software.

9. Draw a diagram and label the given information. Then, solve each triangle. Round answers to the nearest unit.

a) In $\triangle KLM$, $\angle K = 54^\circ$, $\angle L = 61^\circ$, and $k = 23 \text{ m}$.

b) In $\triangle ABC$, $a = 14 \text{ cm}$, $c = 16 \text{ cm}$, and $\angle B = 72^\circ$.

10. Use the measurements given in the diagram to find the length of the bridge, to the nearest metre.

