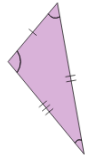




Apply properties of triangles to determine unknown measures

1

What would the sum of the inside angles on this shape be?

A 330° B 120° C 180° D 60° E 150° F 90° **2**

What is known about the angles labelled 30, 70, r

A 30, 70, and r add up to 360°

B r and 70 add to 30

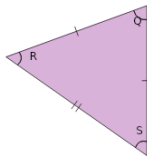
C 30, 70, and r add up to 180° D 30, 70, and r add up to 90°

E 30 and 70 add to r

F 30 and 70 add to twice r

3

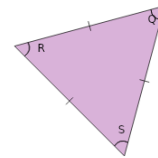
Given the side lengths, what do we know about this triangle's angles?

A $Q = R$ but not SB $R = S$ but not Q

C Q, R, and S are different

D $Q = R = S$ E $S = Q$ but not R**4**

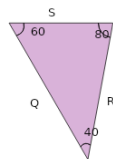
Given the side lengths, what do we know about this triangle's angles?



A S, Q, and R are different

B $R = S$ but not QC $S = Q$ but not RD $S = Q = R$ E $Q = R$ but not S**5**

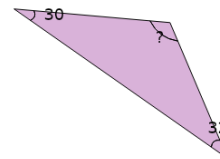
Given the angle measurements, what do we know about the side lengths?

A $S = Q$ but not RB $Q = R$ but not SC $R = S = Q$

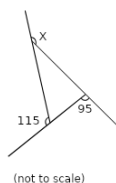
D R, S, and Q are different

E $R = S$ but not Q**6**

Find the equation that will help you calculate the missing angle of the triangle

A $30 + 32 + ? = 360$ B $30 + 32 + ? = 180$ C $30 - 32 - ? = 360$ D $2(30 + 32 + ?) = 180$ E $30 + 32 + ? = 90$ **7**

What is angle X?



A 150

B 170

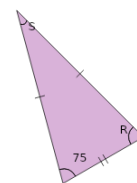
C 145

D 175

E 135

8

What do we know about angle 'R'?



A Unable to answer

B 75

C 50

D 55

E 70

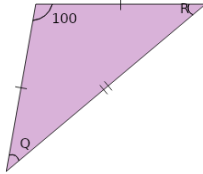
F 60



Apply properties of triangles to determine unknown measures

9

What do we know about angle 'R'?



A 100

B 90

C 40

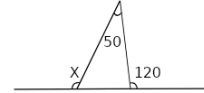
D 55

E 70

F 45

10

What is angle X?



(not to scale)

A 120

B 135

C 125

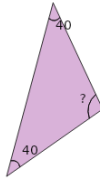
D 110

E 100

F 130

11

Find the missing angle of the triangle



A 70

B 110

C 115

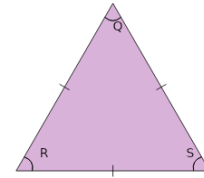
D 130

E 75

F 100

12

What do we know about angle 'S'?



A 90

B 70

C 45

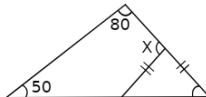
D 60

E 50

F Unable to answer

13

What is angle X?



(not to scale)

A 105

B 110

C 125

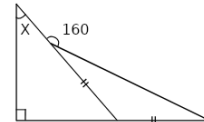
D 115

E 90

F 100

14

What is angle X?



(not to scale)

A 50

B 60

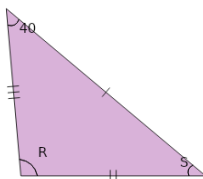
C 65

D 70

E 30

15

What do we know about angle 'R'?



A 60

B Unable to answer

C 90

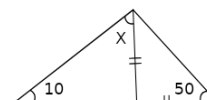
D 55

E 40

F 70

16

What is angle X?



(not to scale)

A 45

B 50

C 75

D 85

E 70

F 65