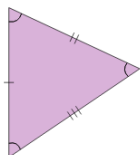




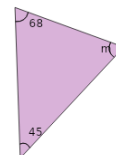
Apply the triangle angle-sum relationship

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



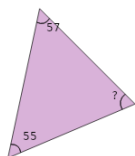
- | | | |
|---------------|---------------|---------------|
| A 180° | B 330° | C 360° |
| D 240° | E 300° | F 270° |

- 2** What is known about the angles labelled 68, 45, m



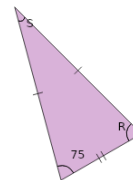
- | | | |
|---------------------------------------|---------------------------------------|------------------------|
| A 68 and 45 add to m | B 68, 45, and m add up to 360° | C 68 is the same as 45 |
| D 68, 45, and m add up to 180° | E 68, 45, and m add up to 90° | F m and 45 add to 68 |

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



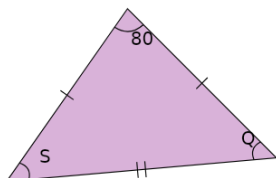
- | | | |
|-----------------------|-----------------------|--------------------------|
| A $57 + 55 + ? = 360$ | B $57 + 55 + ? = 90$ | C $2(57 + 55 + ?) = 180$ |
| D $57 + 55 + ? = 180$ | E $57 - 55 - ? = 360$ | |

- 4** What do we know about angle 'R'?



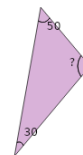
- | | | |
|--------------------|------|------|
| A 60 | B 50 | C 75 |
| D Unable to answer | E 55 | F 70 |

- 5** What do we know about angle 'S'?



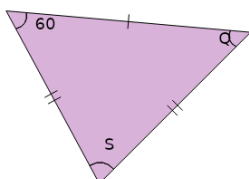
- | | | |
|------|--------------------|------|
| A 70 | B 60 | C 90 |
| D 50 | E Unable to answer | F 55 |

- 6** Find the missing angle of the triangle given that the interior angles must add up to 180°



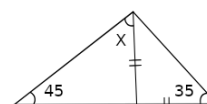
- | | | |
|------|-------|-------|
| A 70 | B 110 | C 120 |
| D 90 | E 100 | F 130 |

- 7** What do we know about angle 'S'?



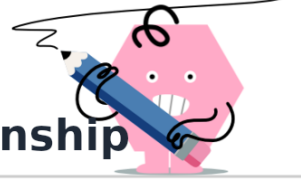
- | | | |
|--------------------|------|------|
| A Unable to answer | B 70 | C 45 |
| D 90 | E 60 | F 50 |

- 8** What is angle X?



(not to scale)

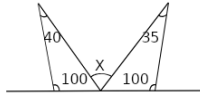
- | | | |
|------|------|------|
| A 65 | B 80 | C 75 |
| D 55 | E 60 | F 90 |



Apply the triangle angle-sum relationship

9

What is angle X?



(not to scale)

A 75

B 80

C 90

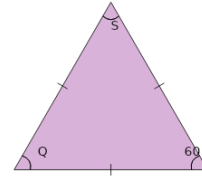
D 95

E 105

F 115

10

What do we know about angle 'Q'?



A 45

B 55

C Unable to answer

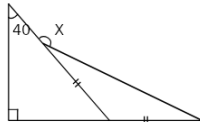
D 70

E 60

F 90

11

What is angle X?



(not to scale)

A 150

B 130

C 165

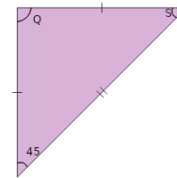
D 155

E 175

F 170

12

What do we know about angle 'Q'?



A 55

B 90

C 60

D 70

E 45

F Unable to answer