Outcome 3 – Angles in a Triangle
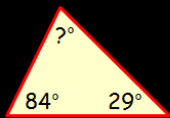
Bronze example

Examples…

Calculate the missing angle
in the triangle below…

****180°
in a
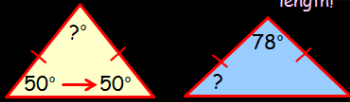triangle!****

?°

84°   29°

84 + 29 = 113

180 – 113 = 67°

Silver examples

Examples…

Calculate the missing angle
in the triangle below…

****Isosceles
triangles
have two
sides of
equal
length!****

?°

50° → 50°

50 + 50 = 100

180 – 100 = 80°

78°

?

180 – 78 = 102

102 ÷ 2 = 51°

Gold example

Examples…

Calculate the missing angle…

121° 59°   49°

?° 49°

**180° in a
straight
line!**

****Look
for 'F'
or 'Z'
angles!****

**180° in a
triangle!**

180 – 121 = 59

59 + 49 = 108

? = 180 – 108 = 72°

Bronze Questions
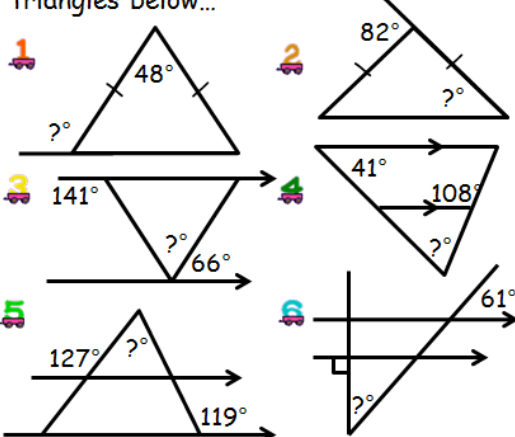
Calculate the missing angles in the
triangles below…

1. 85° ?° 30°

2. ?° 33° 86°

3. 63° ?° 29°

4. 47° ?° 81°

5. ?° 45°

6. 62° ?°
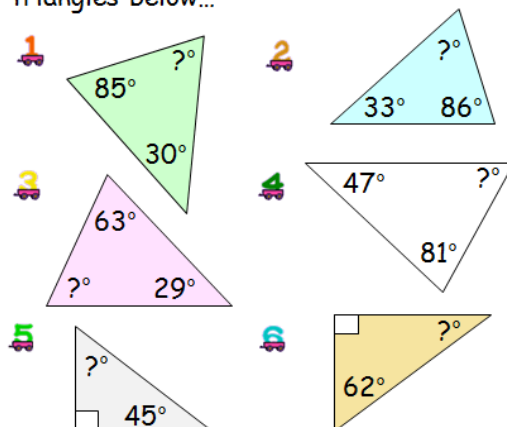
Silver Questions

Calculate the missing angles in the
triangles below…

1. ?° 84°

2. ?° 68°

3. ?° 46°

4. 32° ?°

5. 72° ?°

6. ?°

Gold Questions

Calculate the missing angles in the
triangles below…

1. 48° ?°

2. 82° ?°

3. 141° ?° 66°

4. 41° 108° ?°

5. 127° ?° 119°

6. 61° ?°
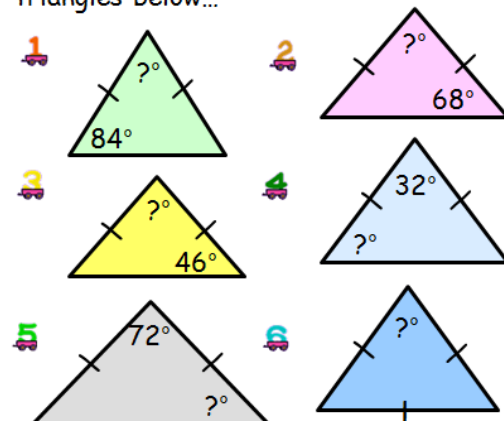
Bronze Answers

1.   ? = 65°   2.   ? = 61°

3.   ? = 88°   4.   ? = 52°

5.   ? = 45°   6.   ? = 28°

Silver Answers

1.   ? = 12°   2.   ? = 44°

3.   ? = 88°   4.   ? = 74°

5.   ? = 54°   6.   ? = 60°

Gold Answers

1.   ? = 114°   2.   ? = 41°

3.   ? = 75°   4.   ? = 67°

5.   ? = 66°   6.   ? = 29°