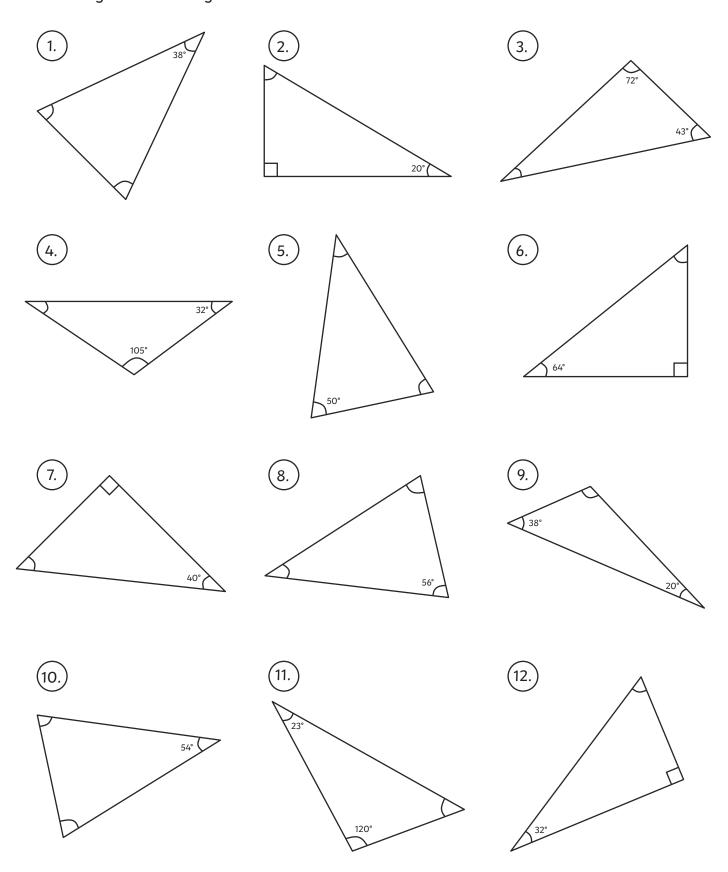
Calculating Angles in a Triangle

Using your knowledge of known facts about triangles, calculate the size of the missing angles in the triangles below. Angles are not to scale.

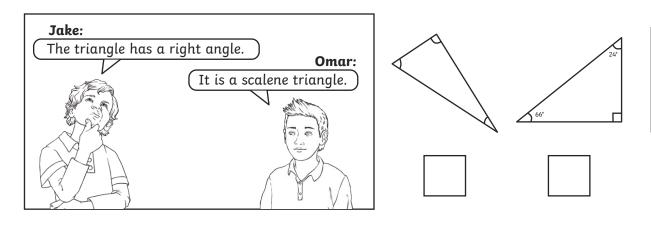


Calculating Angles in a Triangle

- 1. Ellie has measured the three angles in a triangle. One angle is 61° and another is 77°. What is the measurement of the third angle?
- 2. Jake, Omar and Saskija are playing a game. Jake and Omar must give Saskija clues to help her find the triangle that matches theirs.

Which triangle should Saskija choose?

Angles are not to scale.



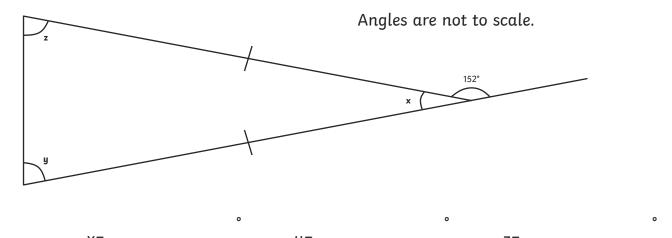
- 3. Dara is trying to solve a riddle. Her only clue is that the ratio of the three angles in the mystery triangle is 2:3:4. Calculate the size of the angles and write them below from smallest to largest:
- 4. Shaali, Caitlyn and Aleisha are investigating scalene triangles. They have each been given a scalene triangle with one 52° angle labelled for them and two missing angles that they must measure.



One of them has made a mistake. Who was it? ___

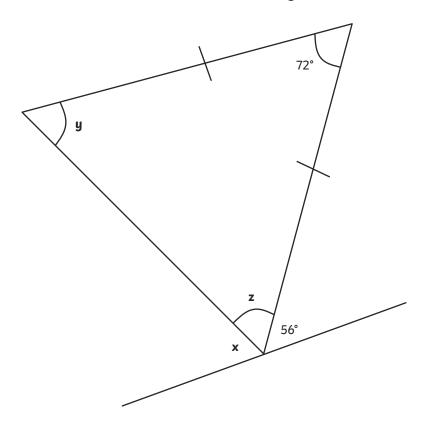
Calculating Angles in a Triangle

5. Find the size of all of the angles in the triangle.

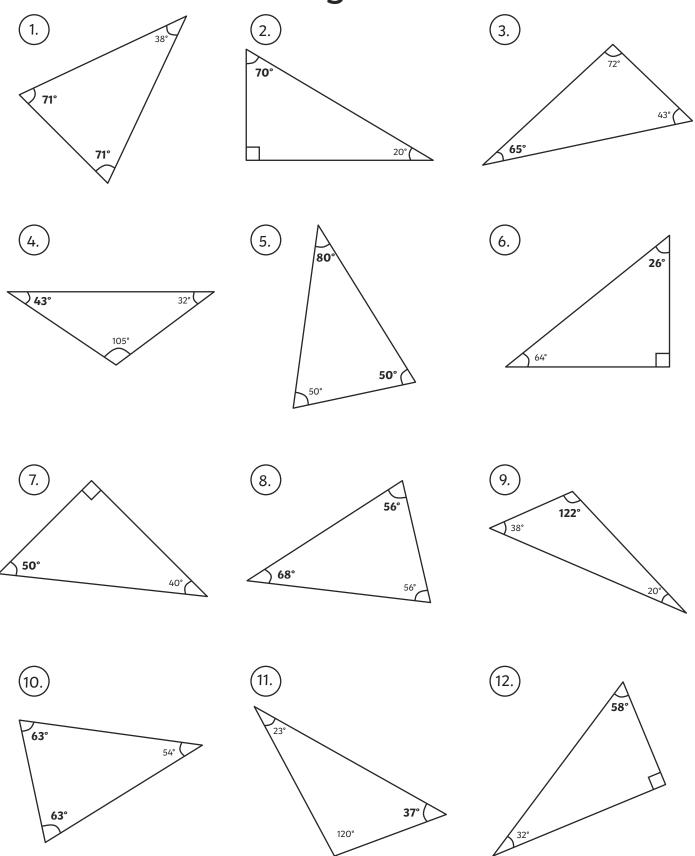


6. Calculate the missing angles.

Angles are not to scale.



Calculating Angles in a Triangle **Answers**

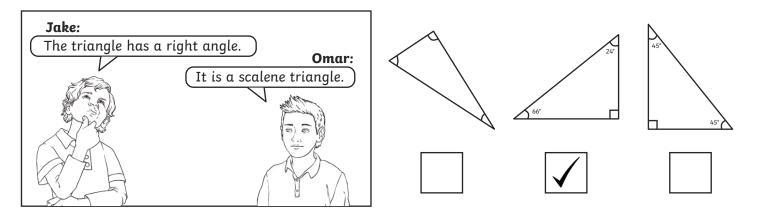


1. Ellie has measured the three angles in a triangle. One angle is 61° and another is 77°. What is the measurement of the third angle?

42°

2. Jake, Omar and Saskija are playing a game. Jake and Omar must give Saskija clues to help her find the triangle that matches theirs.

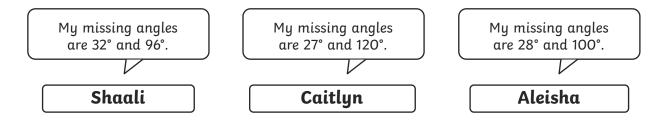
Which triangle should Saskija choose?



3. Dara is trying to solve a riddle. Her only clue is that the ratio of the three angles in the mystery triangle is 2:3:4. Calculate the size of the angles and write them below from smallest to largest:



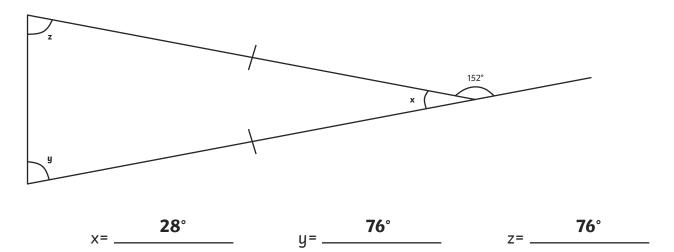
4. Shaali, Caitlyn and Aleisha are investigating scalene triangles. They have each been given a scalene triangle with one 52° angle labelled for them and two missing angles that they must measure.



One of them has made a mistake. Who was it?

Caitlyn has made a mistake. (Her angles add up to more than 180°.)

5. Find the size of all of the angles in the triangle.



6. Calculate the missing angles.

