math Antics Worksheets

Name:

Date:

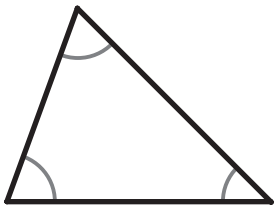
Classifying Triangles (by Angles)

G-TRI 1

Instructions: For each triangle, mark the box that matches its type when classifying by angles.

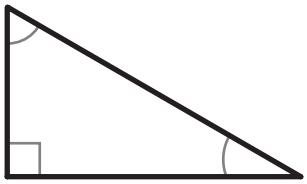
1

- [x] Acute
- [ ] Right
- [ ] Obtuse



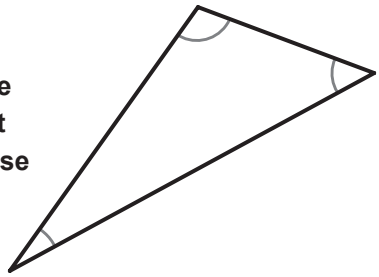
2

- [ ] Acute
- [ ] Right
- [ ] Obtuse



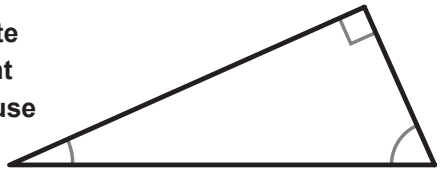
3

- [ ] Acute
- [ ] Right
- [ ] Obtuse



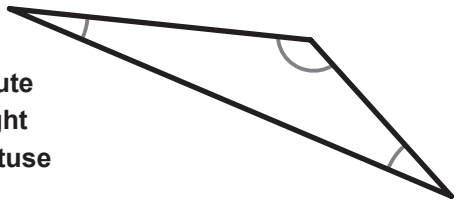
4

- [ ] Acute
- [ ] Right
- [ ] Obtuse



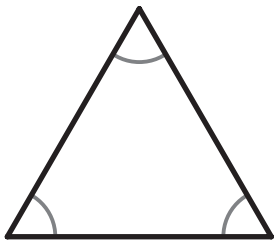
5

- [ ] Acute
- [ ] Right
- [ ] Obtuse



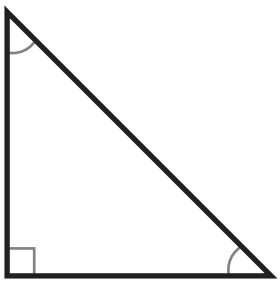
6

- [ ] Acute
- [ ] Right
- [ ] Obtuse



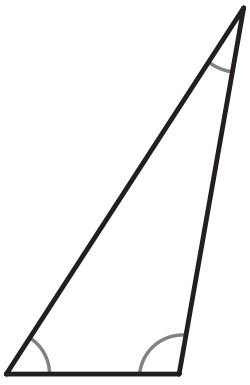
7

- [ ] Acute
- [ ] Right
- [ ] Obtuse



8

- [ ] Acute
- [ ] Right
- [ ] Obtuse



math Antics Worksheets

Name: _____

Date: _____

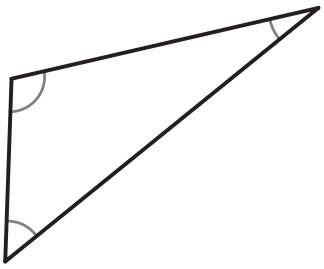
Classifying Triangles (by Sides)

G-TRI 2

Instructions: For each triangle, mark the box that matches its type when classifying by sides. The marks on the sides of the triangles show when two sides are "congruent" or the same length.

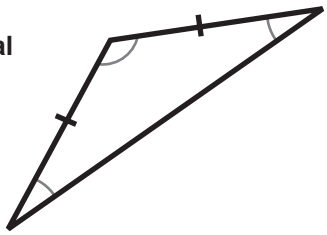
1

- [ ] Equilateral
- [ ] Isosceles
- [x] Scalene



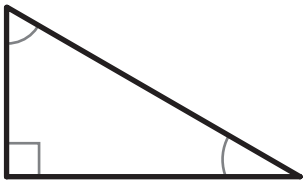
2

- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene



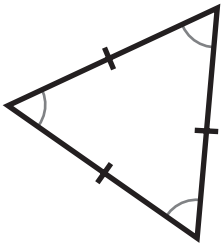
3

- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene



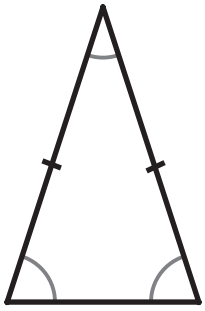
4

- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene



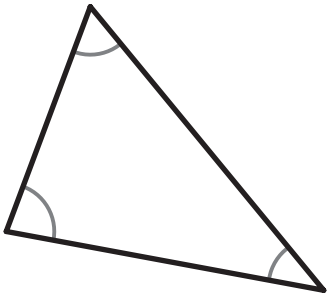
5

- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene



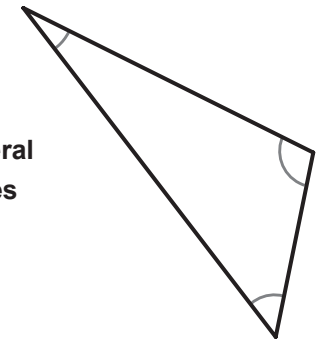
6

- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene



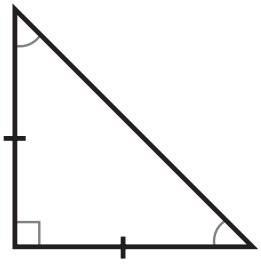
7

- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene



8

- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene



math Antics Worksheets

Name: _____

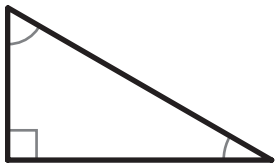
Date: _____

Classifying Triangles (by both Angle and Sides)

G-TRI 3

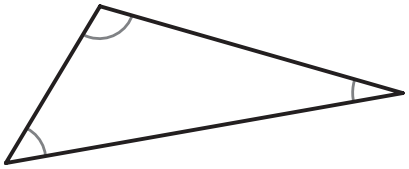
Instructions: For each triangle, mark the box from each catagory that matches its type. The marks on the sides of the triangles show when two sides are "congruent" or the same length.

1



- [ ] Acute
- [x] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [x] Scalene

2

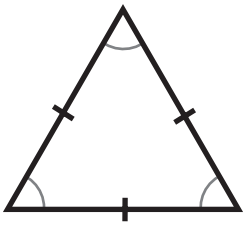


- [ ] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene

3

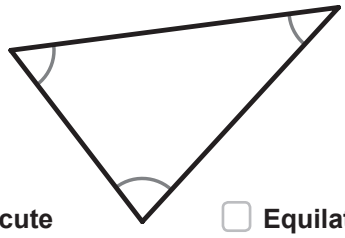
- [ ] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene

4



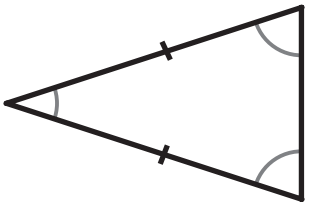
- [ ] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene

5



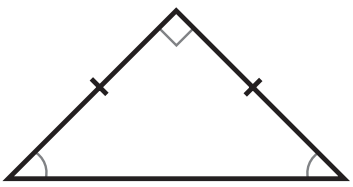
- [ ] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene

6



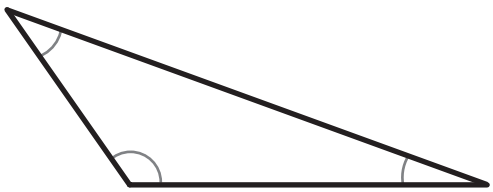
- [ ] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene

7



- [ ] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene

8



- [ ] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [ ] Scalene

math Antics Worksheets

Name: _____

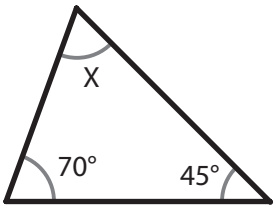
Date: _____

Finding an Unknown Angle

G-TRI 4

Instructions: For each triangle, find the unknown angle (X). Remember that for each triangle, the three interior angles must add up to 180 degrees.

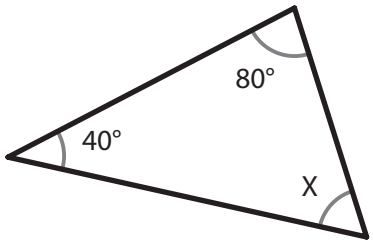
1



m∠X = 65°

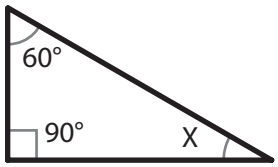
$$\begin{array}{r} 70 \\ +\ 45 \\ \hline 115 \end{array} \qquad \begin{array}{r} {}^{7}\cancel{1}{}^{1}\cancel{8}0 \\ -\ 115 \\ \hline 65 \end{array}$$

2



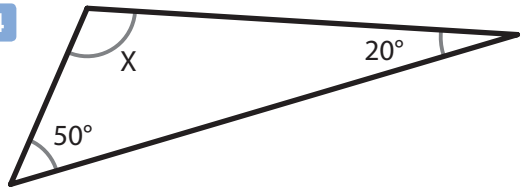
m∠X = _____

3



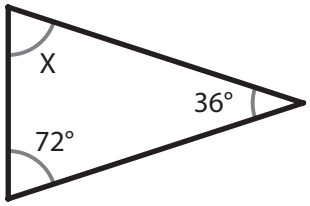
m∠X = _____

4



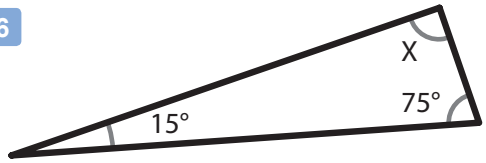
m∠X = _____

5



m∠X = _____

6



m∠X = _____

math Antics Worksheets

Name: _____

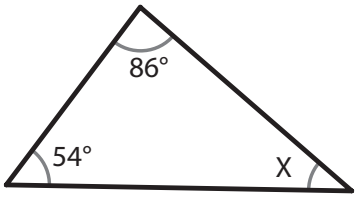
Date: _____

Finding an Unknown Angle - Set 2

G-TRI 5

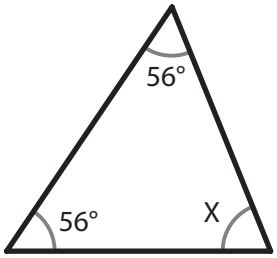
Instructions: For each triangle, find the unknown angle (X). Remember that for each triangle, the three interior angles must add up to 180 degrees.

1



m∠X = _____

2

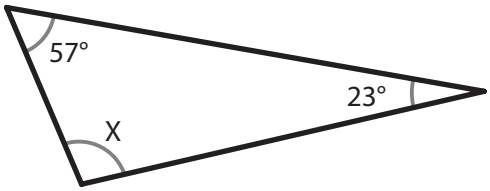


m∠X = _____

3

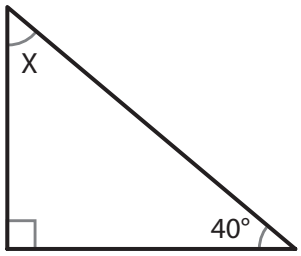
m∠X = _____

4



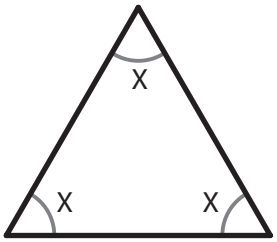
m∠X = _____

5



m∠X = _____

6 **An equilateral triangle always has three equal angles. What is their measure?**



m∠X = _____

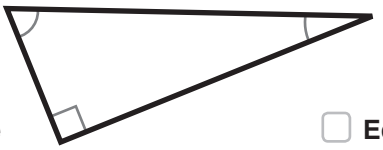
math Antics
Exercises

Name:

Date:

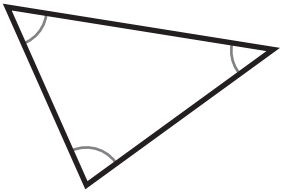
Triangles

1 Classify this triangle. Check any that apply.



- ☐ Acute
- ☐ Right
- ☐ Obtuse
- ☐ Equilateral
- ☐ Isosceles
- ☐ Scalene

2 Classify this triangle. Check any that apply.

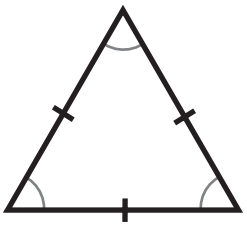


- ☐ Acute
- ☐ Right
- ☐ Obtuse
- ☐ Equilateral
- ☐ Isosceles
- ☐ Scalene

3 Classify this triangle. Check any that apply. (the marked sides are the same length)

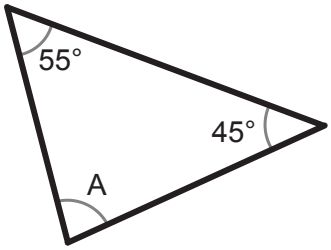
- ☐ Acute
- ☐ Right
- ☐ Obtuse
- ☐ Equilateral
- ☐ Isosceles
- ☐ Scalene

4 Classify this triangle. Check any that apply. (the marked sides are the same length)



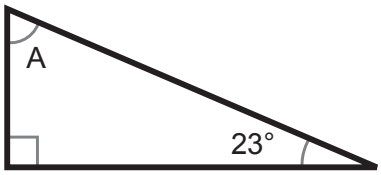
- ☐ Acute
- ☐ Right
- ☐ Obtuse
- ☐ Equilateral
- ☐ Isosceles
- ☐ Scalene

5 Find the unknown angle.

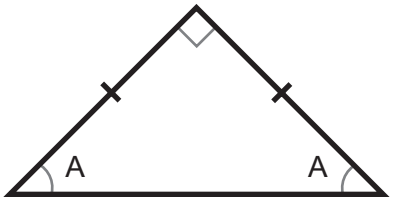


6 Find the unknown angle.

7 Find the unknown angle.



8 Find the unknown angle.



math Antics Worksheets

Name:

Date:

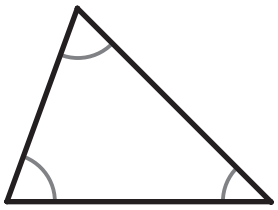
Classifying Triangles (by Angles)

G-TRI 1

Instructions: For each triangle, mark the box that matches its type when classifying by angles.

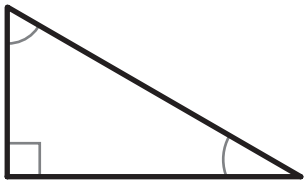
1

- [x] Acute
- [ ] Right
- [ ] Obtuse



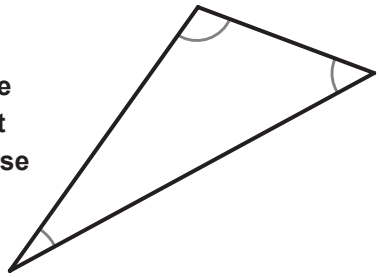
2

- [ ] Acute
- [x] Right
- [ ] Obtuse



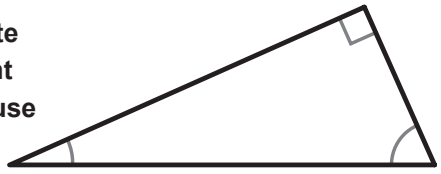
3

- [ ] Acute
- [ ] Right
- [x] Obtuse



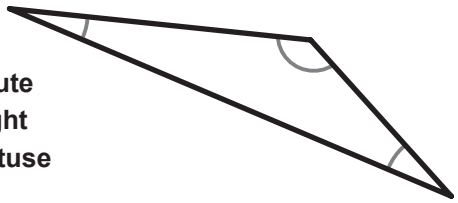
4

- [ ] Acute
- [x] Right
- [ ] Obtuse



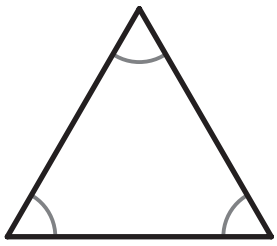
5

- [ ] Acute
- [ ] Right
- [x] Obtuse



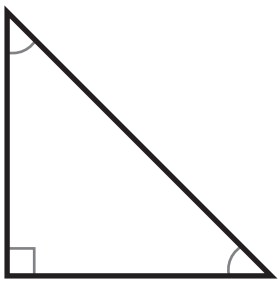
6

- [x] Acute
- [ ] Right
- [ ] Obtuse



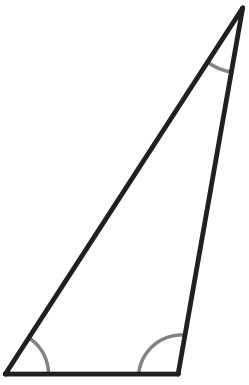
7

- [ ] Acute
- [x] Right
- [ ] Obtuse



8

- [ ] Acute
- [ ] Right
- [x] Obtuse



math Antics Worksheets

Name: _____

Date: _____

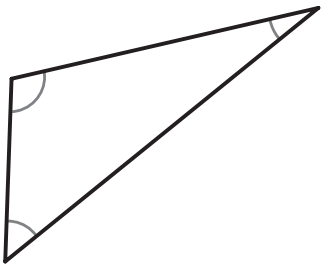
Classifying Triangles (by Sides)

G-TRI 2

Instructions: For each triangle, mark the box that matches its type when classifying by sides. The marks on the sides of the triangles show when two sides are "congruent" or the same length.

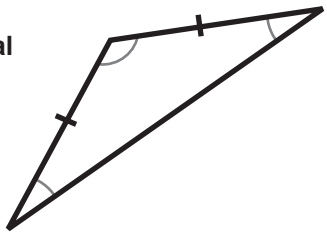
1

- ☐ Equilateral
- ☐ Isosceles
- ☒ Scalene



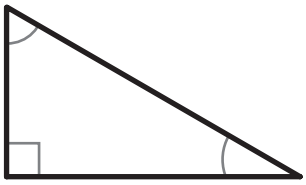
2

- ☐ Equilateral
- ☒ Isosceles
- ☐ Scalene



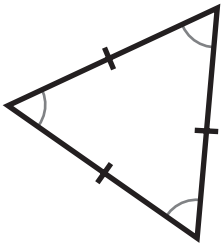
3

- ☐ Equilateral
- ☐ Isosceles
- ☒ Scalene



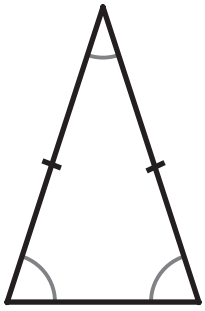
4

- ☒ Equilateral
- ☐ Isosceles
- ☐ Scalene



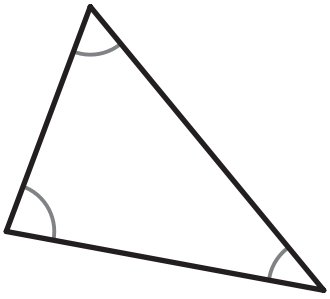
5

- ☐ Equilateral
- ☒ Isosceles
- ☐ Scalene



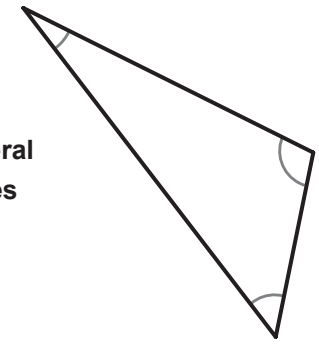
6

- ☐ Equilateral
- ☐ Isosceles
- ☒ Scalene



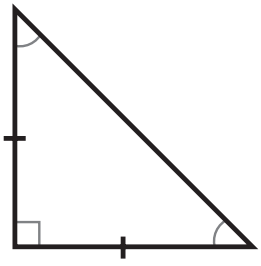
7

- ☐ Equilateral
- ☐ Isosceles
- ☒ Scalene



8

- ☐ Equilateral
- ☒ Isosceles
- ☐ Scalene



math Antics Worksheets

Name: _____

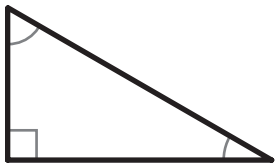
Date: _____

Classifying Triangles (by both Angle and Sides)

G-TRI 3

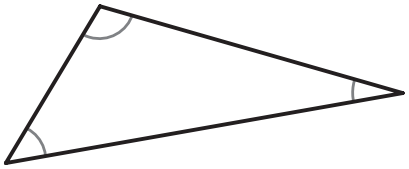
Instructions: For each triangle, mark the box from each catagory that matches its type. The marks on the sides of the triangles show when two sides are "congruent" or the same length.

1



- [ ] Acute
- [x] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [x] Scalene

2

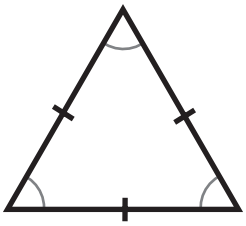


- [ ] Acute
- [ ] Right
- [x] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [x] Scalene

3

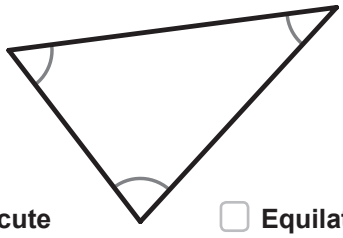
- [ ] Acute
- [ ] Right
- [x] Obtuse
- [ ] Equilateral
- [x] Isosceles
- [ ] Scalene

4



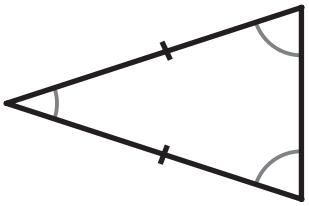
- [x] Acute
- [ ] Right
- [ ] Obtuse
- [x] Equilateral
- [ ] Isosceles
- [ ] Scalene

5



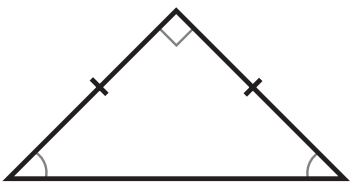
- [x] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [x] Scalene

6



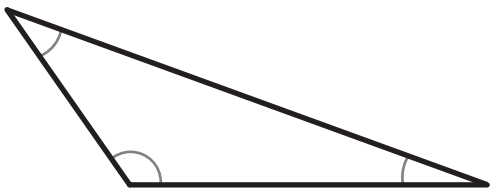
- [x] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [x] Isosceles
- [ ] Scalene

7



- [ ] Acute
- [x] Right
- [ ] Obtuse
- [ ] Equilateral
- [x] Isosceles
- [ ] Scalene

8



- [ ] Acute
- [ ] Right
- [x] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [x] Scalene

math Antics Worksheets

Name: _____

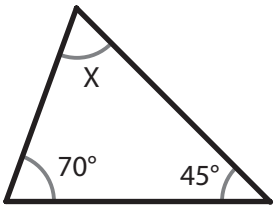
Date: _____

Finding an Unknown Angle

G-TRI 4

Instructions: For each triangle, find the unknown angle (X). Remember that for each triangle, the three interior angles must add up to 180 degrees.

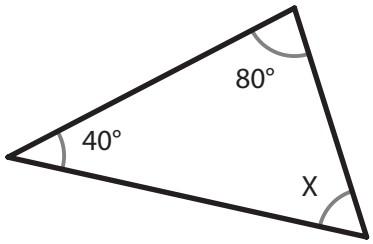
1



m∠X = 65°

$$\begin{array}{r} 70 \\ +\ 45 \\ \hline 115 \end{array} \qquad \begin{array}{r} {}^{7}\cancel{1}{}^{1}\cancel{8}0 \\ -\ 115 \\ \hline 65 \end{array}$$

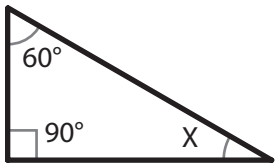
2



m∠X = 60°

$$\begin{array}{r} 80 \\ +\ 40 \\ \hline 120 \end{array} \qquad \begin{array}{r} 180 \\ -\ 120 \\ \hline 60 \end{array}$$

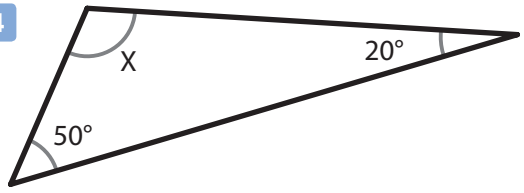
3



m∠X = 30°

$$\begin{array}{r} 90 \\ +\ 60 \\ \hline 150 \end{array} \qquad \begin{array}{r} 180 \\ -\ 150 \\ \hline 30 \end{array}$$

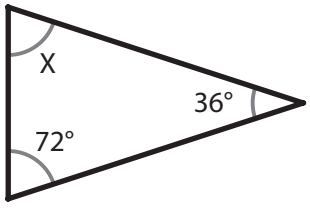
4



m∠X = 110°

$$\begin{array}{r} 50 \\ +\ 20 \\ \hline 70 \end{array} \qquad \begin{array}{r} 180 \\ -\ 70 \\ \hline 110 \end{array}$$

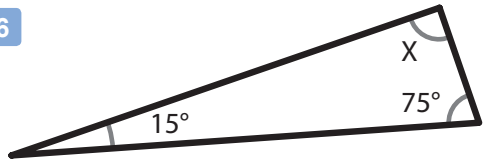
5



m∠X = 72°

$$\begin{array}{r} 72 \\ +\ 36 \\ \hline 108 \end{array} \qquad \begin{array}{r} {}^{7}\cancel{1}{}^{1}\cancel{8}0 \\ -\ 108 \\ \hline 72 \end{array}$$

6



m∠X = 90°

$$\begin{array}{r} {}^{1}75 \\ +\ 15 \\ \hline 90 \end{array} \qquad \begin{array}{r} 180 \\ -\ 90 \\ \hline 90 \end{array}$$

math Antics Worksheets

Name: _____

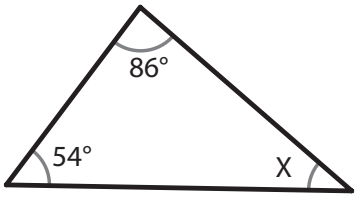
Date: _____

Finding an Unknown Angle - Set 2

G-TRI 5

Instructions: For each triangle, find the unknown angle (X). Remember that for each triangle, the three interior angles must add up to 180 degrees.

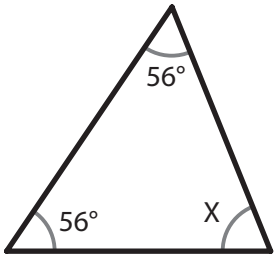
1



m∠X = 40°

$$\begin{array}{r} {\scriptstyle 1} \\ 86 \\ +\ 54 \\ \hline 140 \end{array} \qquad \begin{array}{r} 180 \\ -\ 140 \\ \hline 40 \end{array}$$

2



m∠X = 68°

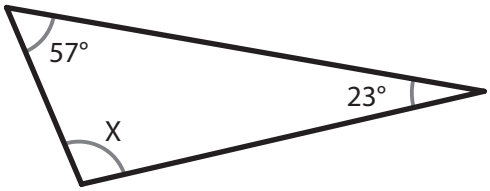
$$\begin{array}{r} {\scriptstyle 1} \\ 56 \\ +\ 56 \\ \hline 112 \end{array} \qquad \begin{array}{r} {\scriptstyle 7\ 1\ 10} \\ 1\cancel{8}\cancel{1}0 \\ -\ 112 \\ \hline 68 \end{array}$$

3

m∠X = 17°

$$\begin{array}{r} {\scriptstyle 1} \\ 138 \\ +\ 25 \\ \hline 163 \end{array} \qquad \begin{array}{r} {\scriptstyle 7\ 1\ 10} \\ 1\cancel{8}\cancel{1}0 \\ -\ 163 \\ \hline 17 \end{array}$$

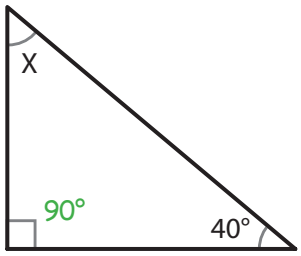
4



m∠X = 100°

$$\begin{array}{r} {\scriptstyle 1} \\ 57 \\ +\ 23 \\ \hline 80 \end{array} \qquad \begin{array}{r} 180 \\ -\ 80 \\ \hline 100 \end{array}$$

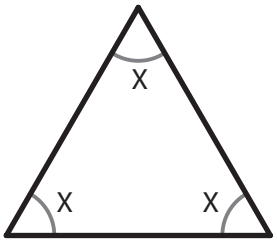
5



m∠X = 50°

$$\begin{array}{r} 90 \\ +\ 40 \\ \hline 130 \end{array} \qquad \begin{array}{r} 180 \\ -\ 130 \\ \hline 50 \end{array}$$

6 **An equilateral triangle always has three equal angles. What is their measure?**



m∠X = 60°

To get the answer, divide the total (180°) by 3

$$\begin{array}{r} 60° \\ 3\overline{)180} \\ -18 \\ \hline 00 \end{array}$$

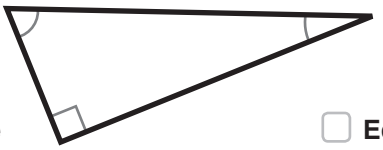
math Antics
Exercises

Name:

Date:

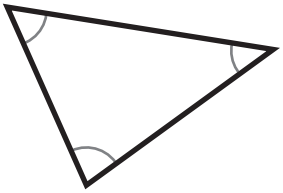
Triangles

1 Classify this triangle. Check any that apply.



- [ ] Acute
- [x] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [x] Scalene

2 Classify this triangle. Check any that apply.

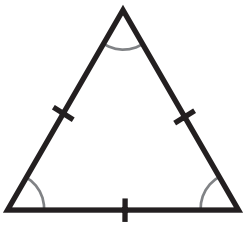


- [x] Acute
- [ ] Right
- [ ] Obtuse
- [ ] Equilateral
- [ ] Isosceles
- [x] Scalene

3 Classify this triangle. Check any that apply. (the marked sides are the same length)

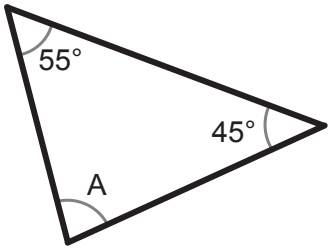
- [ ] Acute
- [ ] Right
- [x] Obtuse
- [ ] Equilateral
- [x] Isosceles
- [ ] Scalene

4 Classify this triangle. Check any that apply. (the marked sides are the same length)



- [x] Acute
- [ ] Right
- [ ] Obtuse
- [x] Equilateral
- [ ] Isosceles
- [ ] Scalene

5 Find the unknown angle.



$$\begin{array}{r} {\scriptstyle 1}\\ 55\\ +\ 45\\ \hline 100 \end{array} \qquad \begin{array}{r} 180\\ -\ 100\\ \hline 80 \end{array}$$

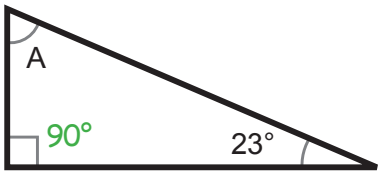
$m\angle A = 80°$

6 Find the unknown angle.

$$\begin{array}{r} {\scriptstyle 1}\\ 125\\ +\ 35\\ \hline 160 \end{array} \qquad \begin{array}{r} 180\\ -\ 160\\ \hline 20 \end{array}$$

$m\angle A = 20°$

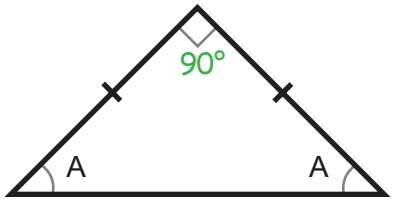
7 Find the unknown angle.



$$\begin{array}{r} 90\\ +\ 23\\ \hline 113 \end{array} \qquad \begin{array}{r} {\scriptstyle 7}\ {\scriptstyle 1}\\ 1\not{8}\not{0}\\ -\ 113\\ \hline 67 \end{array}$$

$m\angle A = 67°$

8 Find the unknown angle.



$$\begin{array}{r} 180\\ -\ 90\\ \hline 90 \end{array} \qquad 90 \div 2 = 45$$

$m\angle A = 45°$

See Video for step-by-step solutions to each problem.