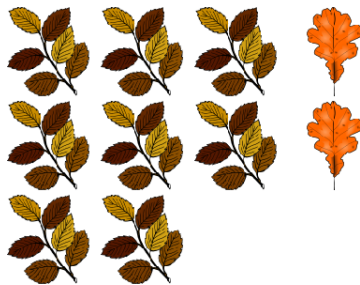


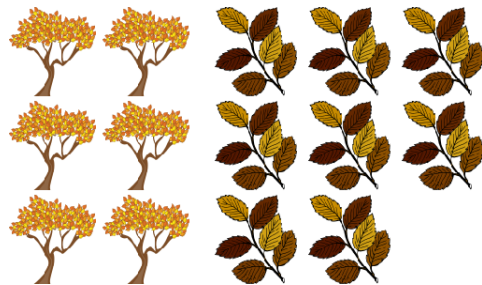
Autumn Ratios (A)

Find each ratio and simplify, if necessary.



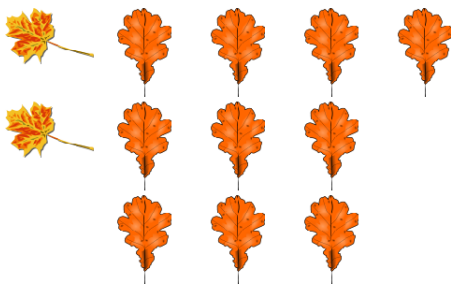
$$\text{leafy branch} : (\text{leafy branch} + \text{acorn}) = \quad : \quad = \quad :$$

$$\text{acorn} : (\text{acorn} + \text{leafy branch}) = \quad : \quad = \quad :$$



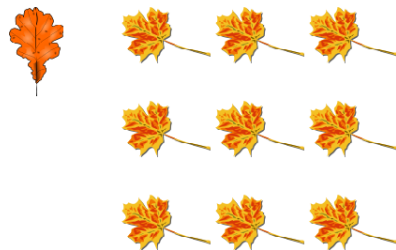
$$\text{tree} : (\text{tree} + \text{leafy branch}) = \quad : \quad = \quad :$$

$$\text{leafy branch} : (\text{leafy branch} + \text{tree}) = \quad : \quad = \quad :$$



$$\text{maple leaf} : \text{oak leaf} = \quad : \quad = \quad :$$

$$\text{oak leaf} : \text{maple leaf} = \quad : \quad = \quad :$$

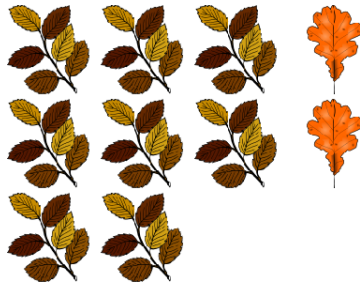


$$\text{oak leaf} : (\text{oak leaf} + \text{maple leaf}) = \quad : \quad = \quad :$$

$$\text{maple leaf} : (\text{maple leaf} + \text{oak leaf}) = \quad : \quad = \quad :$$

Autumn Ratios (A) Answers

Find each ratio and simplify, if necessary.



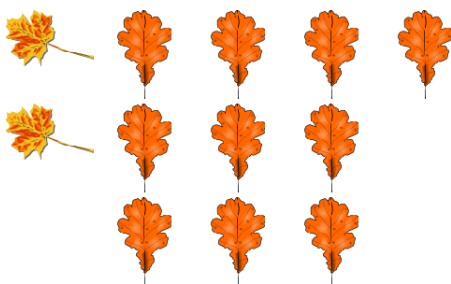
$$\text{brown leaf} : (\text{brown leaf} + \text{orange leaf}) = 8 : 10 = 4 : 5$$

$$\text{orange leaf} : (\text{orange leaf} + \text{brown leaf}) = 2 : 10 = 1 : 5$$



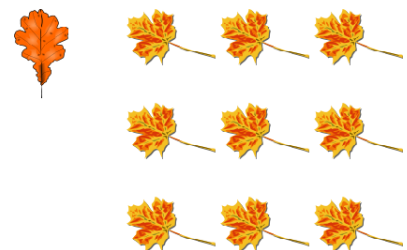
$$\text{yellow tree} : (\text{yellow tree} + \text{brown leaf}) = 6 : 14 = 3 : 7$$

$$\text{brown leaf} : (\text{brown leaf} + \text{yellow tree}) = 8 : 14 = 4 : 7$$



$$\text{yellow leaf} : \text{orange leaf} = 2 : 10 = 1 : 5$$

$$\text{orange leaf} : \text{yellow leaf} = 10 : 2 = 5 : 1$$

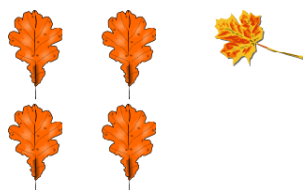


$$\text{orange leaf} : (\text{orange leaf} + \text{yellow leaf}) = 1 : 10 = 1 : 10$$

$$\text{yellow leaf} : (\text{yellow leaf} + \text{orange leaf}) = 9 : 10 = 9 : 10$$

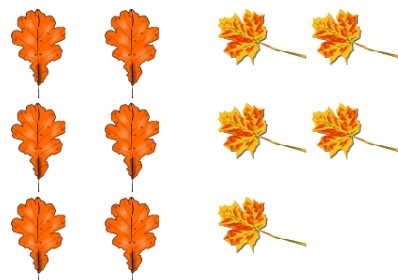
Autumn Ratios (B)

Find each ratio and simplify, if necessary.



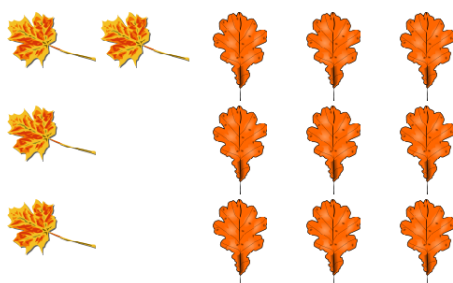
$$\text{oak leaf} : (\text{oak leaf} + \text{maple leaf}) = \quad : \quad = \quad :$$

$$\text{maple leaf} : (\text{maple leaf} + \text{oak leaf}) = \quad : \quad = \quad :$$



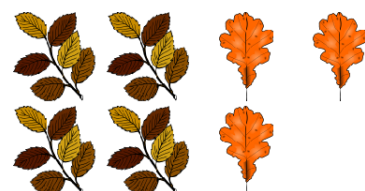
$$\text{oak leaf} : \text{maple leaf} = \quad : \quad = \quad :$$

$$\text{maple leaf} : \text{oak leaf} = \quad : \quad = \quad :$$



$$\text{maple leaf} : (\text{maple leaf} + \text{oak leaf}) = \quad : \quad = \quad :$$

$$\text{oak leaf} : (\text{oak leaf} + \text{maple leaf}) = \quad : \quad = \quad :$$

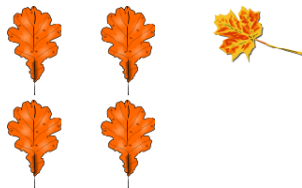


$$\text{holly leaf} : \text{oak leaf} = \quad : \quad = \quad :$$

$$\text{oak leaf} : \text{holly leaf} = \quad : \quad = \quad :$$

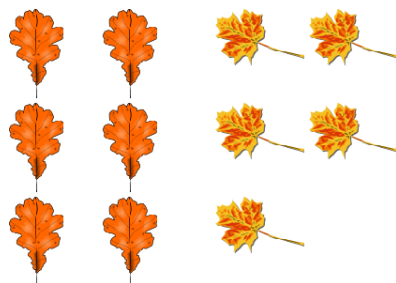
Autumn Ratios (B) Answers

Find each ratio and simplify, if necessary.



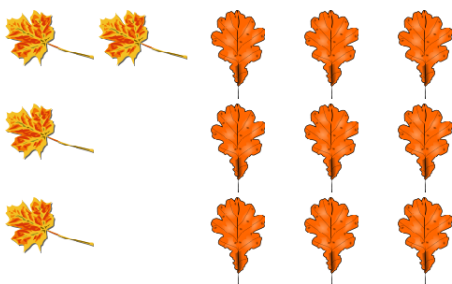
$$\text{oak leaf} : (\text{oak leaf} + \text{maple leaf}) = 4 : 5 = 4 : 5$$

$$\text{maple leaf} : (\text{maple leaf} + \text{oak leaf}) = 1 : 5 = 1 : 5$$



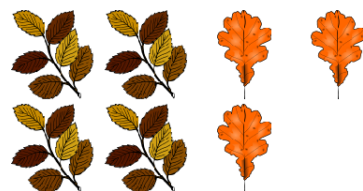
$$\text{oak leaf} : \text{maple leaf} = 6 : 5 = 6 : 5$$

$$\text{maple leaf} : \text{oak leaf} = 5 : 6 = 5 : 6$$



$$\text{maple leaf} : (\text{maple leaf} + \text{oak leaf}) = 4 : 13 = 4 : 13$$

$$\text{oak leaf} : (\text{oak leaf} + \text{maple leaf}) = 9 : 13 = 9 : 13$$

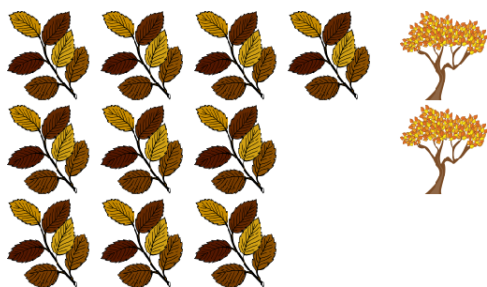


$$\text{holly leaf} : \text{oak leaf} = 4 : 3 = 4 : 3$$

$$\text{oak leaf} : \text{holly leaf} = 3 : 4 = 3 : 4$$

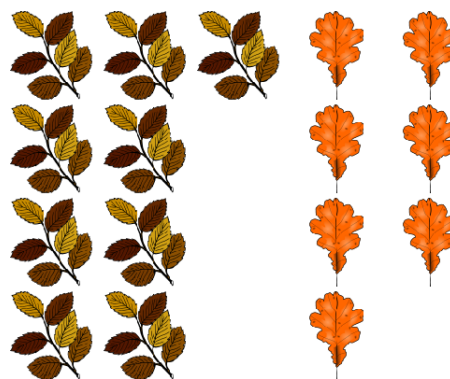
Autumn Ratios (C)

Find each ratio and simplify, if necessary.



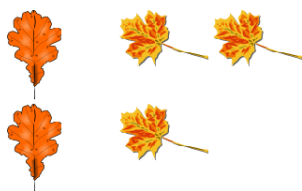
$$\text{leaf} : (\text{leaf} + \text{tree}) = \quad : \quad = \quad :$$

$$\text{tree} : (\text{tree} + \text{leaf}) = \quad : \quad = \quad :$$



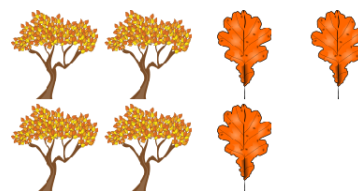
$$\text{leaf} : \text{tree} = \quad : \quad = \quad :$$

$$\text{tree} : \text{leaf} = \quad : \quad = \quad :$$



$$\text{leaf} : \text{tree} = \quad : \quad = \quad :$$

$$\text{tree} : \text{leaf} = \quad : \quad = \quad :$$

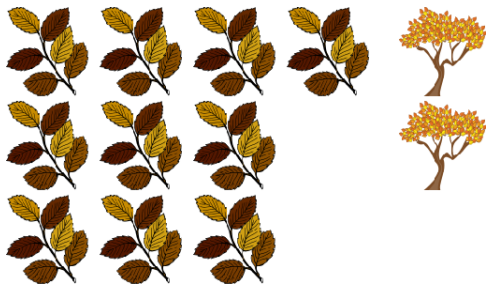


$$\text{tree} : (\text{tree} + \text{leaf}) = \quad : \quad = \quad :$$

$$\text{leaf} : (\text{leaf} + \text{tree}) = \quad : \quad = \quad :$$

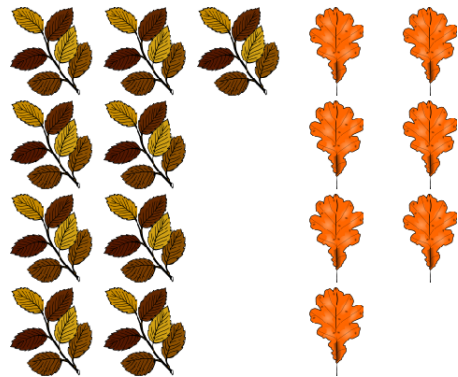
Autumn Ratios (C) Answers

Find each ratio and simplify, if necessary.



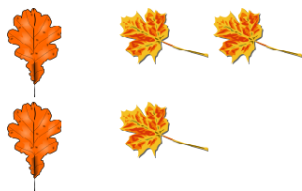
$$\text{leaf} : (\text{leaf} + \text{tree}) = 10 : 12 = 5 : 6$$

$$\text{tree} : (\text{tree} + \text{leaf}) = 2 : 12 = 1 : 6$$



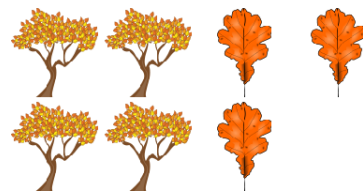
$$\text{leaf} : \text{acorn} = 9 : 7 = 9 : 7$$

$$\text{acorn} : \text{leaf} = 7 : 9 = 7 : 9$$



$$\text{acorn} : \text{leaf} = 2 : 3 = 2 : 3$$

$$\text{leaf} : \text{acorn} = 3 : 2 = 3 : 2$$

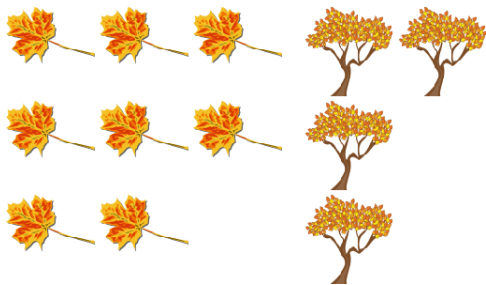


$$\text{tree} : (\text{tree} + \text{acorn}) = 4 : 7 = 4 : 7$$

$$\text{acorn} : (\text{acorn} + \text{tree}) = 3 : 7 = 3 : 7$$

Autumn Ratios (D)

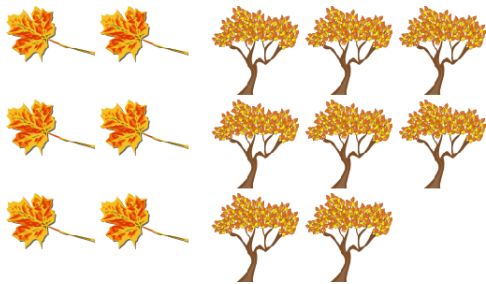
Find each ratio and simplify, if necessary.



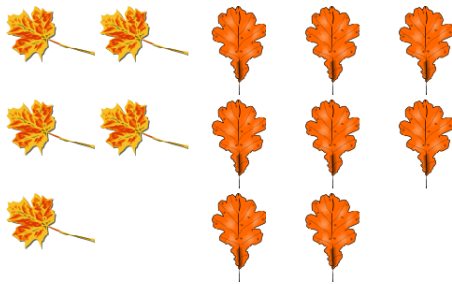
$$\begin{aligned} \text{leaf} : \text{tree} &= \quad : \quad = \quad : \\ \text{tree} : \text{leaf} &= \quad : \quad = \quad : \end{aligned}$$



$$\begin{aligned} \text{tree} : \text{leaf} &= \quad : \quad = \quad : \\ \text{leaf} : \text{tree} &= \quad : \quad = \quad : \end{aligned}$$



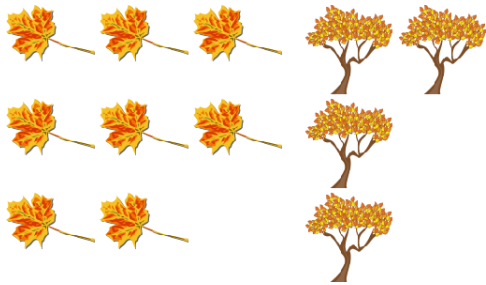
$$\begin{aligned} \text{leaf} : \text{tree} &= \quad : \quad = \quad : \\ \text{tree} : \text{leaf} &= \quad : \quad = \quad : \end{aligned}$$



$$\begin{aligned} \text{leaf} : (\text{leaf} + \text{acorn}) &= \quad : \quad = \quad : \\ \text{acorn} : (\text{acorn} + \text{leaf}) &= \quad : \quad = \quad : \end{aligned}$$

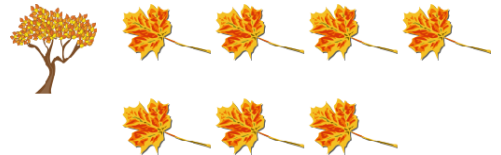
Autumn Ratios (D) Answers

Find each ratio and simplify, if necessary.



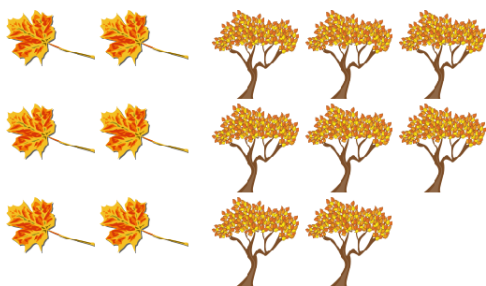
$$\text{leaf} : \text{tree} = 8 : 4 = 2 : 1$$

$$\text{tree} : \text{leaf} = 4 : 8 = 1 : 2$$



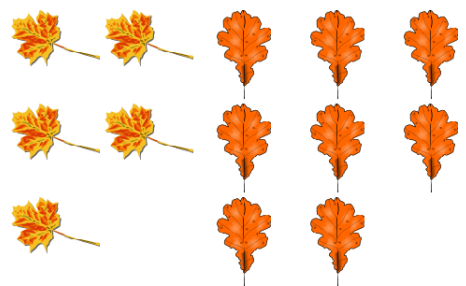
$$\text{tree} : \text{leaf} = 1 : 7 = 1 : 7$$

$$\text{leaf} : \text{tree} = 7 : 1 = 7 : 1$$



$$\text{leaf} : \text{tree} = 6 : 8 = 3 : 4$$

$$\text{tree} : \text{leaf} = 8 : 6 = 4 : 3$$

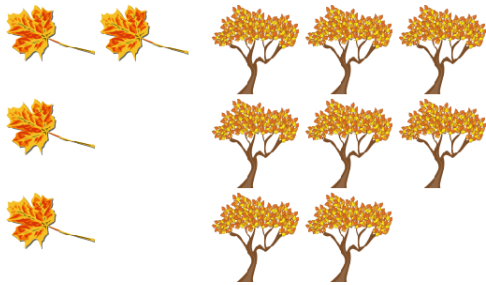


$$\text{leaf} : (\text{leaf} + \text{acorn}) = 5 : 13 = 5 : 13$$

$$\text{acorn} : (\text{acorn} + \text{leaf}) = 8 : 13 = 8 : 13$$

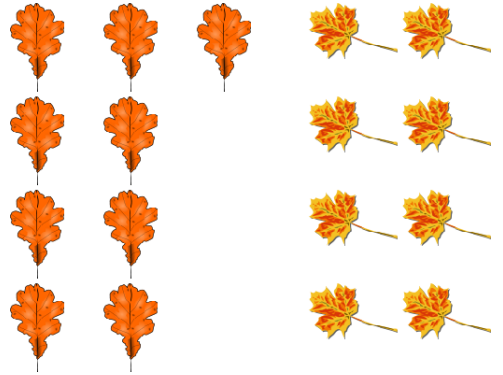
Autumn Ratios (E)

Find each ratio and simplify, if necessary.



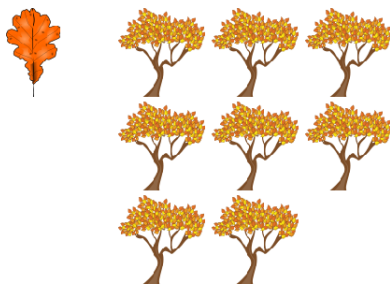
$$\text{maple leaf} : \text{deciduous tree} = \quad : \quad = \quad : \quad$$

$$\text{deciduous tree} : \text{maple leaf} = \quad : \quad = \quad : \quad$$



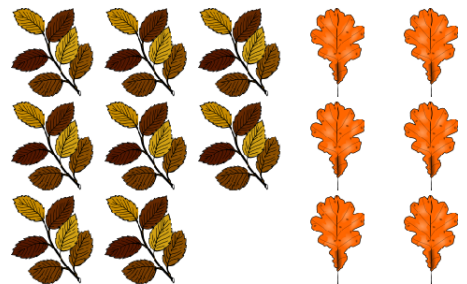
$$\text{oak leaf} : \text{maple leaf} = \quad : \quad = \quad : \quad$$

$$\text{maple leaf} : \text{oak leaf} = \quad : \quad = \quad : \quad$$



$$\text{oak leaf} : (\text{oak leaf} + \text{deciduous tree}) = \quad : \quad = \quad : \quad$$

$$\text{deciduous tree} : (\text{deciduous tree} + \text{oak leaf}) = \quad : \quad = \quad : \quad$$

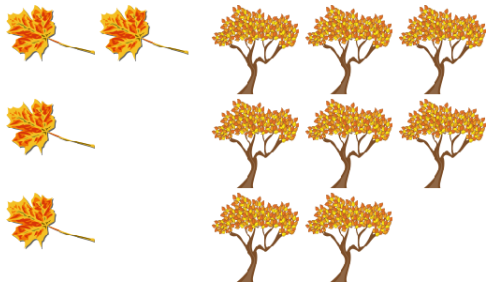


$$\text{holly leaf} : (\text{holly leaf} + \text{oak leaf}) = \quad : \quad = \quad : \quad$$

$$\text{oak leaf} : (\text{oak leaf} + \text{holly leaf}) = \quad : \quad = \quad : \quad$$

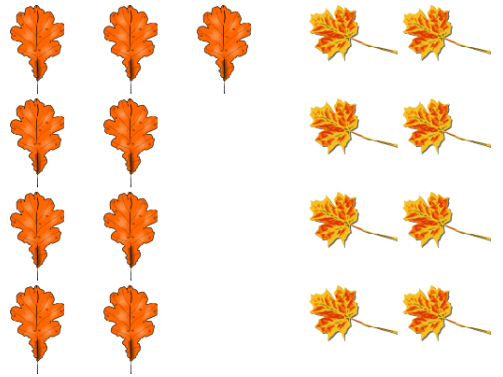
Autumn Ratios (E) Answers

Find each ratio and simplify, if necessary.



$$\text{leaf} : \text{tree} = 4 : 8 = 1 : 2$$

$$\text{tree} : \text{leaf} = 8 : 4 = 2 : 1$$



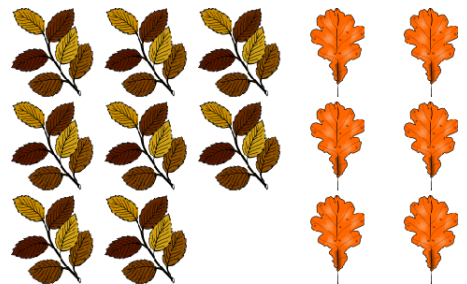
$$\text{acorn} : \text{leaf} = 9 : 8 = 9 : 8$$

$$\text{leaf} : \text{acorn} = 8 : 9 = 8 : 9$$



$$\text{acorn} : (\text{acorn} + \text{tree}) = 1 : 9 = 1 : 9$$

$$\text{tree} : (\text{tree} + \text{acorn}) = 9 : 10 = 9 : 10$$

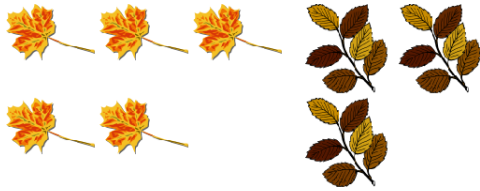


$$\text{brown leaf} : (\text{brown leaf} + \text{acorn}) = 8 : 14 = 4 : 7$$

$$\text{acorn} : (\text{acorn} + \text{brown leaf}) = 6 : 14 = 3 : 7$$

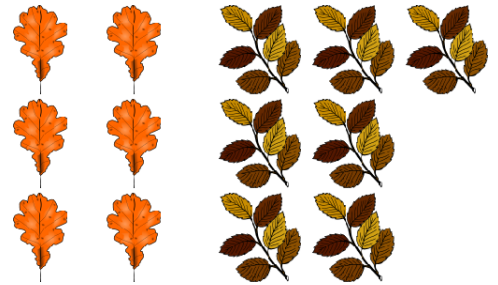
Autumn Ratios (F)

Find each ratio and simplify, if necessary.



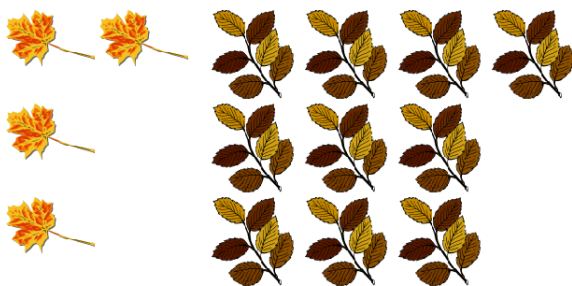
$$\text{Yellow Leaf} : (\text{Yellow Leaf} + \text{Leafy Branch}) = \quad : \quad = \quad :$$

$$\text{Leafy Branch} : (\text{Leafy Branch} + \text{Yellow Leaf}) = \quad : \quad = \quad :$$



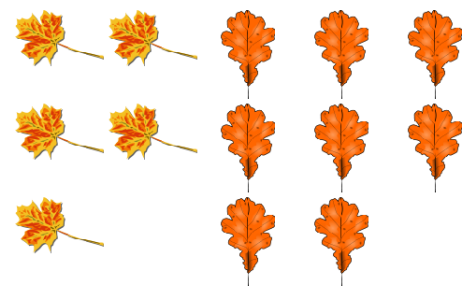
$$\text{Orange Leaf} : (\text{Orange Leaf} + \text{Leafy Branch}) = \quad : \quad = \quad :$$

$$\text{Leafy Branch} : (\text{Leafy Branch} + \text{Orange Leaf}) = \quad : \quad = \quad :$$



$$\text{Yellow Leaf} : \text{Leafy Branch} = \quad : \quad = \quad :$$

$$\text{Leafy Branch} : \text{Yellow Leaf} = \quad : \quad = \quad :$$

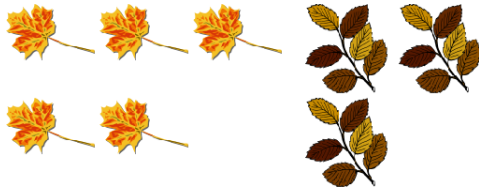


$$\text{Yellow Leaf} : (\text{Yellow Leaf} + \text{Orange Leaf}) = \quad : \quad = \quad :$$

$$\text{Orange Leaf} : (\text{Orange Leaf} + \text{Yellow Leaf}) = \quad : \quad = \quad :$$

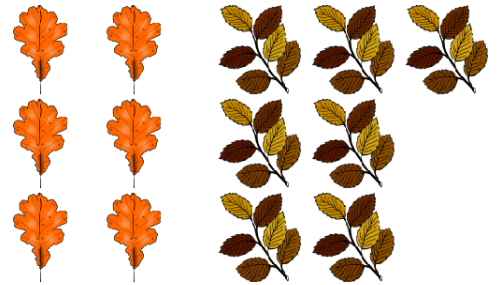
Autumn Ratios (F) Answers

Find each ratio and simplify, if necessary.



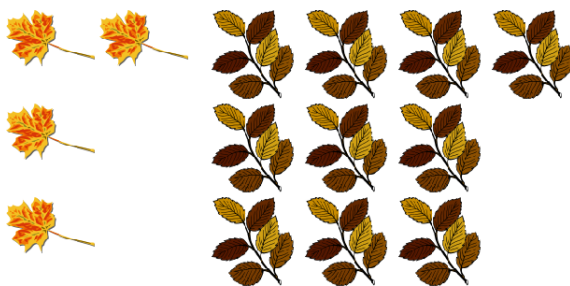
$$\text{yellow leaf} : (\text{yellow leaf} + \text{leafy branch}) = 5 : 8 = 5 : 8$$

$$\text{leafy branch} : (\text{leafy branch} + \text{yellow leaf}) = 3 : 8 = 3 : 8$$



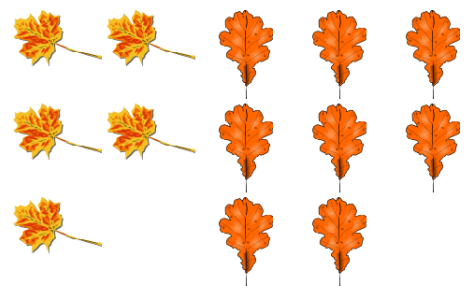
$$\text{yellow leaf} : (\text{yellow leaf} + \text{leafy branch}) = 6 : 13 = 6 : 13$$

$$\text{leafy branch} : (\text{leafy branch} + \text{yellow leaf}) = 7 : 13 = 7 : 13$$



$$\text{yellow leaf} : \text{leafy branch} = 4 : 10 = 2 : 5$$

$$\text{leafy branch} : \text{yellow leaf} = 10 : 4 = 5 : 2$$



$$\text{yellow leaf} : (\text{yellow leaf} + \text{yellow leaf}) = 5 : 13 = 5 : 13$$

$$\text{yellow leaf} : (\text{yellow leaf} + \text{yellow leaf}) = 8 : 13 = 8 : 13$$

Autumn Ratios (G)

Find each ratio and simplify, if necessary.



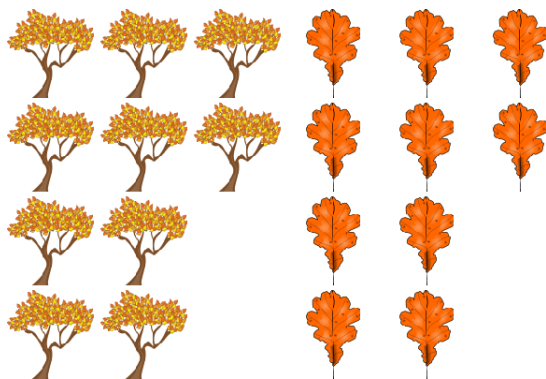
$$\text{leaf} : \text{tree} = \quad : \quad = \quad : \quad$$

$$\text{tree} : \text{leaf} = \quad : \quad = \quad : \quad$$



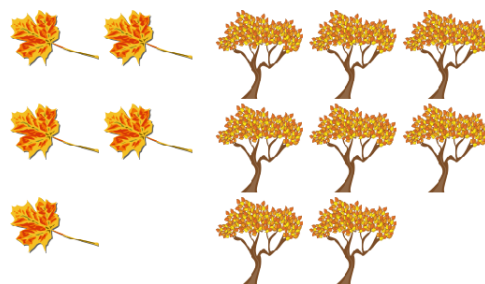
$$\text{leaf} : (\text{leaf} + \text{brown leaf}) = \quad : \quad = \quad : \quad$$

$$\text{brown leaf} : (\text{brown leaf} + \text{leaf}) = \quad : \quad = \quad : \quad$$



$$\text{tree} : (\text{tree} + \text{leaf}) = \quad : \quad = \quad : \quad$$

$$\text{leaf} : (\text{leaf} + \text{tree}) = \quad : \quad = \quad : \quad$$



$$\text{leaf} : (\text{leaf} + \text{tree}) = \quad : \quad = \quad : \quad$$

$$\text{tree} : (\text{tree} + \text{leaf}) = \quad : \quad = \quad : \quad$$

Autumn Ratios (G) Answers

Find each ratio and simplify, if necessary.



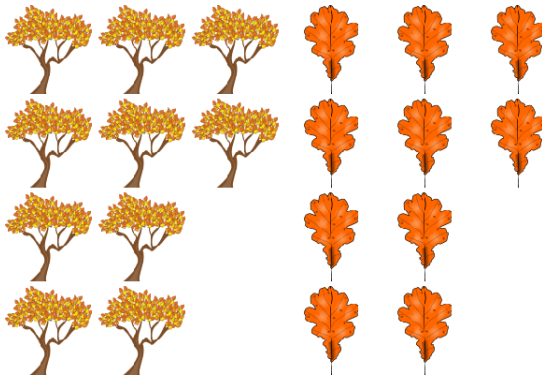
$$\text{leaf} : \text{tree} = 3 : 2 = 3 : 2$$

$$\text{tree} : \text{leaf} = 2 : 3 = 2 : 3$$



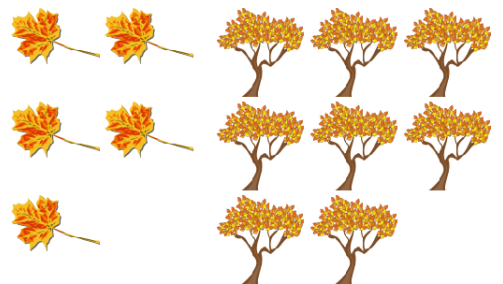
$$\text{leaf} : (\text{leaf} + \text{brown leaf}) = 3 : 7 = 3 : 7$$

$$\text{brown leaf} : (\text{brown leaf} + \text{leaf}) = 4 : 7 = 4 : 7$$



$$\text{tree} : (\text{tree} + \text{leaf}) = 10 : 20 = 1 : 2$$

$$\text{leaf} : (\text{leaf} + \text{tree}) = 10 : 20 = 1 : 2$$

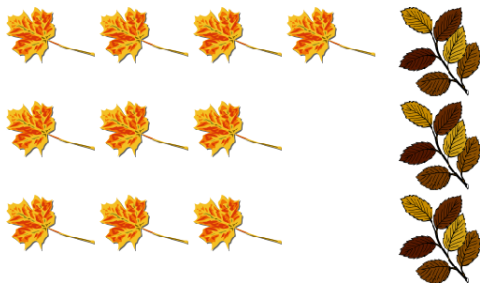


$$\text{leaf} : (\text{leaf} + \text{tree}) = 5 : 13 = 5 : 13$$

$$\text{tree} : (\text{tree} + \text{leaf}) = 8 : 13 = 8 : 13$$

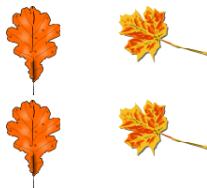
Autumn Ratios (H)

Find each ratio and simplify, if necessary.



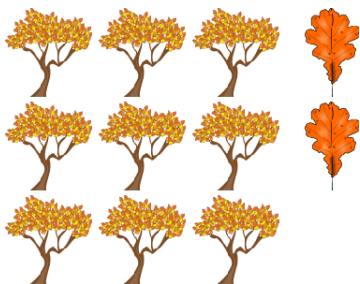
$$\text{Yellow Leaf} : (\text{Yellow Leaf} + \text{Brown Leaf}) = \quad : \quad = \quad :$$

$$\text{Brown Leaf} : (\text{Brown Leaf} + \text{Yellow Leaf}) = \quad : \quad = \quad :$$



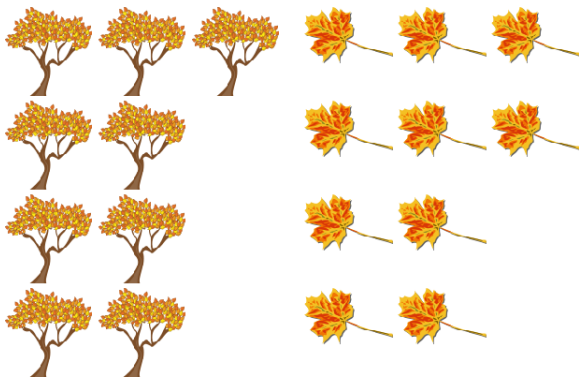
$$\text{Oak Leaf} : \text{Maple Leaf} = \quad : \quad = \quad :$$

$$\text{Maple Leaf} : \text{Oak Leaf} = \quad : \quad = \quad :$$



$$\text{Yellow Tree} : \text{Oak Leaf} = \quad : \quad = \quad :$$

$$\text{Oak Leaf} : \text{Yellow Tree} = \quad : \quad = \quad :$$

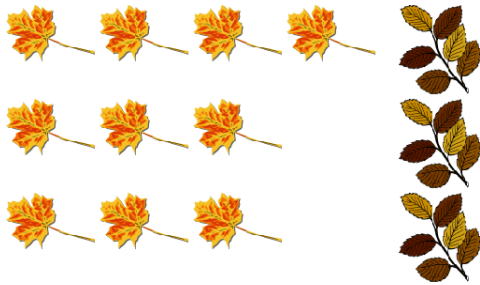


$$\text{Yellow Tree} : (\text{Yellow Tree} + \text{Yellow Leaf}) = \quad : \quad = \quad :$$

$$\text{Yellow Leaf} : (\text{Yellow Leaf} + \text{Yellow Tree}) = \quad : \quad = \quad :$$

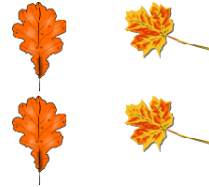
Autumn Ratios (H) Answers

Find each ratio and simplify, if necessary.



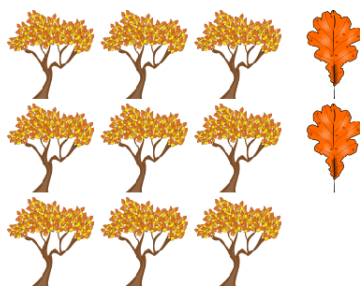
$$\text{yellow leaf} : (\text{yellow leaf} + \text{brown leaf}) = 10 : 13 = 10 : 13$$

$$\text{brown leaf} : (\text{brown leaf} + \text{yellow leaf}) = 3 : 13 = 3 : 13$$



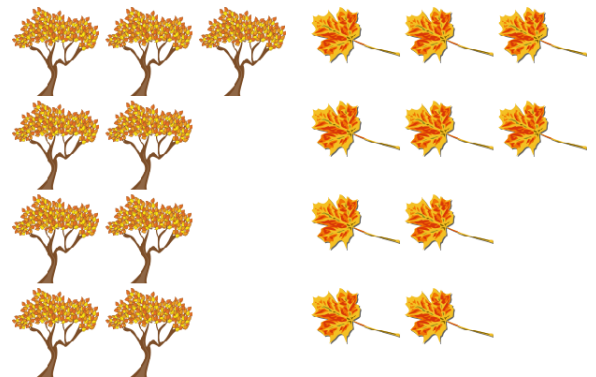
$$\text{orange leaf} : \text{yellow leaf} = 2 : 2 = 1 : 1$$

$$\text{yellow leaf} : \text{orange leaf} = 2 : 2 = 1 : 1$$



$$\text{yellow tree} : \text{orange leaf} = 9 : 2 = 9 : 2$$

$$\text{orange leaf} : \text{yellow tree} = 2 : 9 = 2 : 9$$

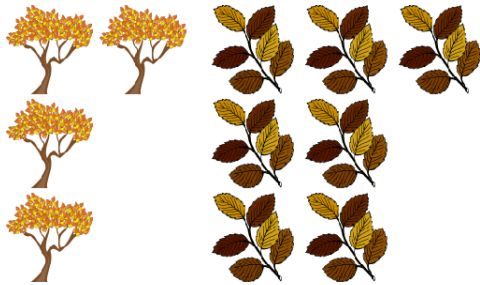


$$\text{yellow tree} : (\text{yellow tree} + \text{yellow leaf}) = 9 : 19 = 9 : 19$$

$$\text{yellow leaf} : (\text{yellow leaf} + \text{yellow tree}) = 10 : 19 = 10 : 19$$

Autumn Ratios (I)

Find each ratio and simplify, if necessary.



$$\text{yellow tree} : \text{brown leaf} = \quad : \quad = \quad$$

$$\text{brown leaf} : \text{yellow tree} = \quad : \quad = \quad$$



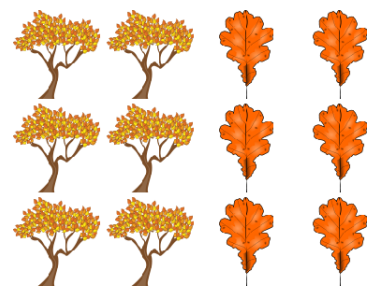
$$\text{brown leaf} : \text{yellow tree} = \quad : \quad = \quad$$

$$\text{yellow tree} : \text{brown leaf} = \quad : \quad = \quad$$



$$\text{brown leaf} : \text{yellow tree} = \quad : \quad = \quad$$

$$\text{yellow tree} : \text{brown leaf} = \quad : \quad = \quad$$

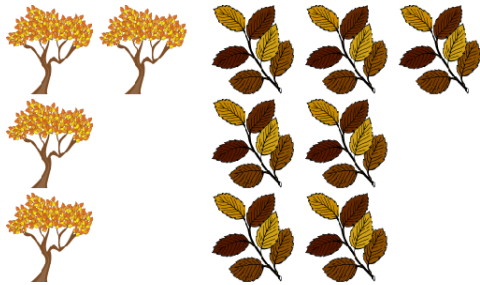


$$\text{yellow tree} : \text{orange leaf} = \quad : \quad = \quad$$

$$\text{orange leaf} : \text{yellow tree} = \quad : \quad = \quad$$

Autumn Ratios (I) Answers

Find each ratio and simplify, if necessary.



$$\text{yellow tree} : \text{brown leaf} = 4 : 7 = 4 : 7$$

$$\text{brown leaf} : \text{yellow tree} = 7 : 4 = 7 : 4$$



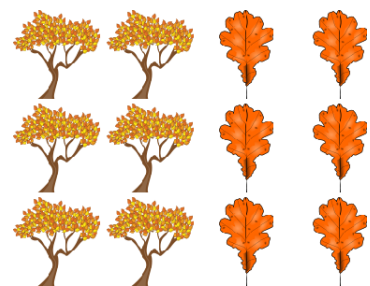
$$\text{brown leaf} : \text{yellow tree} = 2 : 5 = 2 : 5$$

$$\text{yellow tree} : \text{brown leaf} = 5 : 2 = 5 : 2$$



$$\text{brown leaf} : \text{yellow tree} = 8 : 2 = 4 : 1$$

$$\text{yellow tree} : \text{brown leaf} = 2 : 8 = 1 : 4$$



$$\text{yellow tree} : \text{orange leaf} = 6 : 6 = 1 : 1$$

$$\text{orange leaf} : \text{yellow tree} = 6 : 6 = 1 : 1$$

Autumn Ratios (J)

Find each ratio and simplify, if necessary.



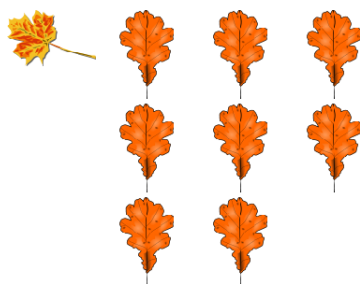
$$\text{maple leaf} : (\text{maple leaf} + \text{oak leaf}) = \quad : \quad = \quad :$$

$$\text{oak leaf} : (\text{oak leaf} + \text{maple leaf}) = \quad : \quad = \quad :$$



$$\text{acorn} : (\text{acorn} + \text{deciduous tree}) = \quad : \quad = \quad :$$

$$\text{deciduous tree} : (\text{deciduous tree} + \text{acorn}) = \quad : \quad = \quad :$$



$$\text{maple leaf} : \text{acorn} = \quad : \quad = \quad :$$

$$\text{acorn} : \text{maple leaf} = \quad : \quad = \quad :$$



$$\text{deciduous tree} : \text{evergreen tree} = \quad : \quad = \quad :$$

$$\text{evergreen tree} : \text{deciduous tree} = \quad : \quad = \quad :$$

Autumn Ratios (J) Answers

Find each ratio and simplify, if necessary.



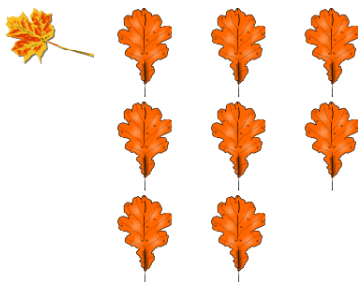
$$\text{leaf} : (\text{leaf} + \text{leaf}) = 2 : 11 = 2 : 11$$

$$\text{leaf} : (\text{leaf} + \text{leaf}) = 9 : 11 = 9 : 11$$



$$\text{acorn} : (\text{acorn} + \text{tree}) = 3 : 10 = 3 : 10$$

$$\text{tree} : (\text{tree} + \text{acorn}) = 7 : 10 = 7 : 10$$



$$\text{leaf} : \text{acorn} = 1 : 8 = 1 : 8$$

$$\text{acorn} : \text{leaf} = 8 : 1 = 8 : 1$$



$$\text{tree} : \text{leaf} = 1 : 2 = 1 : 2$$

$$\text{leaf} : \text{tree} = 2 : 1 = 2 : 1$$