Name _____ Date _____

Maple Sugaring Math

Boil the sap down to syrup. Fill in the tables, then solve.



Sap is mostly water, which boils off as steam.
Most sap: about **40** gallons for **1** gallon of syrup.
Sweeter sap: about **30** gallons for **1** gallon of syrup.

Most sap: 40 to 1

Sap (gallons)	Syrup (gallons)
40	1
_____	2
200	_____
_____	7
480	_____

Sweeter sap: 30 to 1

Sap (gallons)	Syrup (gallons)
30	1
_____	3
120	_____
_____	6
_____	20

1. A sugar camp boils down **360** gallons of sap. At **40** to **1**, how many gallons of syrup do they make?

_____ gallons of syrup

2. A family wants **15** gallons of syrup. At **40** to **1**, how many gallons of sap do they need?

_____ gallons of sap

3. One sugar bush boils **240** gallons of sweeter sap, at **30** to **1**. Another boils **240** gallons of sap at **40** to **1**. How much more syrup does the sweeter sap make?

_____ gallons more

© 2026 Eggroll Games

Name _____ Date _____

Maple Sugaring Math

How many taps for each tree? Then find the sap and syrup.



A maple is tapped only when it is big enough. Less than 12 inches across: no tap. 12 to 18 inches: 1 tap. More than 18 inches: 2 taps. Each tap gives about 10 gallons of sap in a spring.

1. Example



14 inches across

taps: 1

2.



11 inches across

taps: ____

3.



21 inches across

taps: ____

4.



15 inches across

taps: ____

5.



12 inches across

taps: ____

6.



18 inches across

taps: ____

7.



24 inches across

taps: ____

8.



7 inches across

taps: ____

9.



19 inches across

taps: ____

10.



13 inches across

taps: ____

11.



16 inches across

taps: ____

12.



8 inches across

taps: ____

All the taps together: ____ taps

____ taps × 10 gallons = ____ gallons of sap

____ gallons of sap ÷ 40 = ____ gallons of syrup

© 2026 Eggroll Games

Name _____ Date _____

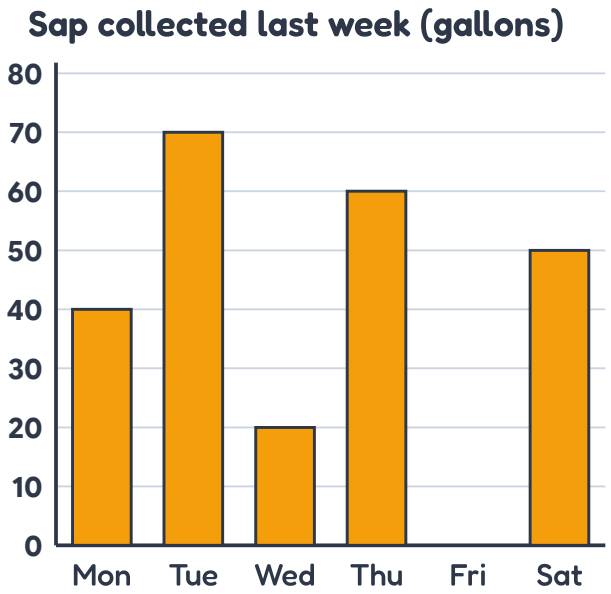
Maple Sugaring Math

Find the sap days. Then read the graph of a week of sap.



Sap runs in early spring, after a night that freezes and on a day that thaws: the low is below 32°F and the high is above 32°F. Write yes or no for each day.

Day	Low	High	Sap day?
Monday	25°	41°	
Tuesday	28°	45°	
Wednesday	35°	52°	
Thursday	18°	29°	
Friday	22°	38°	
Saturday	30°	34°	
Sunday	12°	24°	
Monday	33°	47°	



1. How many gallons of sap were collected last week in all?

_____ gallons

2. How many more gallons came on Tuesday than on Wednesday?

_____ gallons

3. At 40 to 1, how many gallons of syrup will last week's sap make?

_____ gallons

© 2026 Eggroll Games

Name _____ Date _____

Maple Sugaring Math

Find each time. Show your work.



Sap boils for hours over a wood fire until it turns to syrup. Water boils at 212°F. Syrup is ready **7** degrees hotter, at 219°F.

1. A family starts boiling sap at 7:00 a.m. The syrup is ready at 11:30 a.m. How long did the sap boil?

Example **4** hr **30** min

2. The fire is lit at 6:45 a.m., and the sap boils for **3** hours **30** minutes. What time is the syrup ready?

_____

3. The last syrup is ready at 4:20 p.m. It boiled for **5** hours **40** minutes. What time did it start?

_____

4. A trough of sap boils from 9:15 a.m. to 1:50 p.m. How long does it boil?

_____ hr _____ min

5. A kettle of sap boils for **1** hour **45** minutes. From 8:00 a.m., **3** kettles boil one after another. When is the last done?

_____

6. The syrup thermometer reads 205°F. Syrup is ready at 219°F. How many more degrees must it heat up?

_____ degrees

© 2026 Eggroll Games

Name _____ Date _____

Maple Sugaring Math

Fill in the table. Then solve each problem.



1 gallon = 4 quarts = 16 cups.
Families also boil syrup further into maple sugar: pressed into cakes or stirred into grains, and kept in birchbark boxes.

Gallons	1	2	3	5	____	8	10
Quarts	4	____	12	____	24	32	____
Cups	16	32	____	80	96	____	160

1. A family makes **3** gallons of syrup and pours it into quart jars. How many jars do they fill?

____ jars

2. A gallon of syrup boils down into about **7** pounds of maple sugar. About how many pounds of sugar do **6** gallons make?

____ pounds

3. A birchbark box holds **12** pounds of maple sugar. How many boxes are needed for **60** pounds?

____ boxes

4. A family makes **50** maple sugar cakes. A basket holds **6** cakes. How many baskets do they need to carry every cake?

____ baskets

© 2026 Eggroll Games

Name _____ Date _____



Maple Sugaring Math

Boil the sap down to syrup. Fill in the tables, then solve.



Sap is mostly water, which boils off as steam.
Most sap: about **40** gallons for **1** gallon of syrup.
Sweeter sap: about **30** gallons for **1** gallon of syrup.

Most sap: 40 to 1

Sap (gallons)	Syrup (gallons)
40	1
_____	2
200	_____
_____	7
480	_____

Sweeter sap: 30 to 1

Sap (gallons)	Syrup (gallons)
30	1
_____	3
120	_____
_____	6
_____	20

1. A sugar camp boils down **360** gallons of sap. At **40** to **1**, how many gallons of syrup do they make?

_____ gallons of syrup

2. A family wants **15** gallons of syrup. At **40** to **1**, how many gallons of sap do they need?

_____ gallons of sap

3. One sugar bush boils **240** gallons of sweeter sap, at **30** to **1**. Another boils **240** gallons of sap at **40** to **1**. How much more syrup does the sweeter sap make?

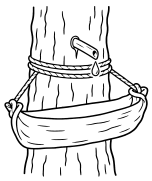
_____ gallons more

© 2026 Eggroll Games

Name _____ Date _____

Maple Sugaring Math

How many taps for each tree? Then find the sap and syrup.



A maple is tapped only when it is big enough. Less than 12 inches across: no tap. 12 to 18 inches: 1 tap. More than 18 inches: 2 taps. Each tap gives about 10 gallons of sap in a spring.

1. Example



14 inches across

taps: 1

2.



11 inches across

taps: ____

3.



21 inches across

taps: ____

4.



15 inches across

taps: ____

5.



12 inches across

taps: ____

6.



18 inches across

taps: ____

7.



24 inches across

taps: ____

8.



7 inches across

taps: ____

9.



19 inches across

taps: ____

10.



13 inches across

taps: ____

11.



16 inches across

taps: ____

12.



8 inches across

taps: ____

All the taps together: ____ taps

____ taps × 10 gallons = ____ gallons of sap

____ gallons of sap ÷ 40 = ____ gallons of syrup

© 2026 Eggroll Games

Name _____ Date _____

Maple Sugaring Math

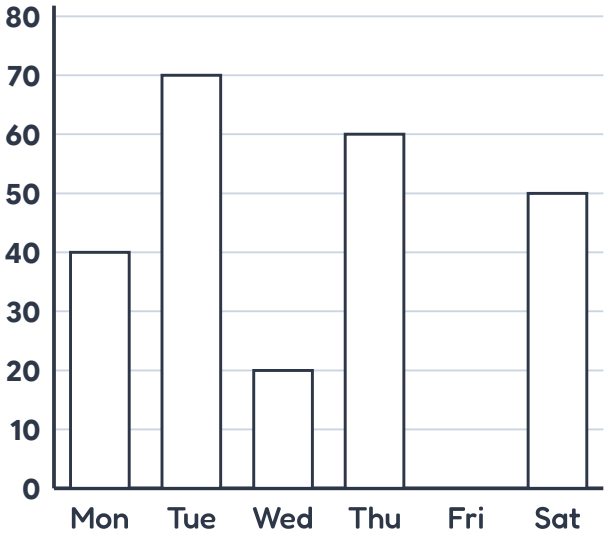
Find the sap days. Then read the graph of a week of sap.



Sap runs in early spring, after a night that freezes and on a day that thaws: the low is below 32°F and the high is above 32°F. Write yes or no for each day.

Day	Low	High	Sap day?
Monday	**25°**	**41°**	
Tuesday	**28°**	**45°**	
Wednesday	**35°**	**52°**	
Thursday	**18°**	**29°**	
Friday	**22°**	**38°**	
Saturday	**30°**	**34°**	
Sunday	**12°**	**24°**	
Monday	**33°**	**47°**	

Sap collected last week (gallons)



1. **How many gallons of sap were collected last week in all?**

   _____ **gallons**

2. **How many more gallons came on Tuesday than on Wednesday?**

   _____ **gallons**

3. **At 40 to 1, how many gallons of syrup will last week's sap make?**

   _____ **gallons**

© 2026 Eggroll Games

Name _____ Date _____

Maple Sugaring Math

Find each time. Show your work.



Sap boils for hours over a wood fire until it turns to syrup. Water boils at 212°F. Syrup is ready **7** degrees hotter, at 219°F.

1. A family starts boiling sap at 7:00 a.m. The syrup is ready at 11:30 a.m. How long did the sap boil?

Example **4** hr **30** min

2. The fire is lit at 6:45 a.m., and the sap boils for **3** hours **30** minutes. What time is the syrup ready?

_____

3. The last syrup is ready at 4:20 p.m. It boiled for **5** hours **40** minutes. What time did it start?

_____

4. A trough of sap boils from 9:15 a.m. to 1:50 p.m. How long does it boil?

_____ hr _____ min

5. A kettle of sap boils for **1** hour **45** minutes. From 8:00 a.m., **3** kettles boil one after another. When is the last done?

_____

6. The syrup thermometer reads 205°F. Syrup is ready at 219°F. How many more degrees must it heat up?

_____ degrees

© 2026 Eggroll Games

Name _____ Date _____



Maple Sugaring Math

Fill in the table. Then solve each problem.



1 gallon = 4 quarts = 16 cups.
Families also boil syrup further into maple sugar: pressed into cakes or stirred into grains, and kept in birchbark boxes.

Gallons	1	2	3	5	____	8	10
Quarts	4	____	12	____	24	32	____
Cups	16	32	____	80	96	____	160

1. A family makes **3** gallons of syrup and pours it into quart jars. How many jars do they fill?

____ jars

2. A gallon of syrup boils down into about **7** pounds of maple sugar. About how many pounds of sugar do **6** gallons make?

____ pounds

3. A birchbark box holds **12** pounds of maple sugar. How many boxes are needed for **60** pounds?

____ boxes

4. A family makes **50** maple sugar cakes. A basket holds **6** cakes. How many baskets do they need to carry every cake?

____ baskets

© 2026 Eggroll Games

Maple Sugaring Math

Boil the sap down to syrup. Fill in the tables, then solve.



Sap is mostly water, which boils off as steam.
Most sap: about **40** gallons for **1** gallon of syrup.
Sweeter sap: about **30** gallons for **1** gallon of syrup.

Most sap: 40 to 1

Sap (gallons)	Syrup (gallons)
40	1
80	2
200	5
280	7
480	12

Sweeter sap: 30 to 1

Sap (gallons)	Syrup (gallons)
30	1
90	3
120	4
180	6
600	20

1. A sugar camp boils down **360** gallons of sap. At **40** to **1**, how many gallons of syrup do they make?

   360 ÷ 40 = 9

   9 gallons of syrup

2. A family wants **15** gallons of syrup. At **40** to **1**, how many gallons of sap do they need?

   15 × 40 = 600

   600 gallons of sap

3. One sugar bush boils **240** gallons of sweeter sap, at **30** to **1**. Another boils **240** gallons of sap at **40** to **1**. How much more syrup does the sweeter sap make?

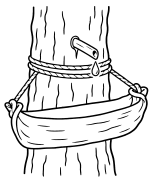
   8 − 6 = 2

   2 gallons more

© 2026 Eggroll Games

Maple Sugaring Math

How many taps for each tree? Then find the sap and syrup.



A maple is tapped only when it is big enough. Less than **12** inches across: no tap. **12** to **18** inches: **1** tap. More than **18** inches: **2** taps. Each tap gives about **10** gallons of sap in a spring.

1. Example



14 inches across

taps: **1**

2.



11 inches across

taps: **0**

3.



21 inches across

taps: **2**

4.



15 inches across

taps: **1**

5.



12 inches across

taps: **1**

6.



18 inches across

taps: **1**

7.



24 inches across

taps: **2**

8.



7 inches across

taps: **0**

9.



19 inches across

taps: **2**

10.



13 inches across

taps: **1**

11.



16 inches across

taps: **1**

12.



8 inches across

taps: **0**

All the taps together: **12** taps

12 taps × **10** gallons = **120** gallons of sap

120 gallons of sap ÷ **40** = **3** gallons of syrup

ANIMAL MATH

Find worksheets, teacher tools, and more at animalmath.com

© 2026 Eggroll Games

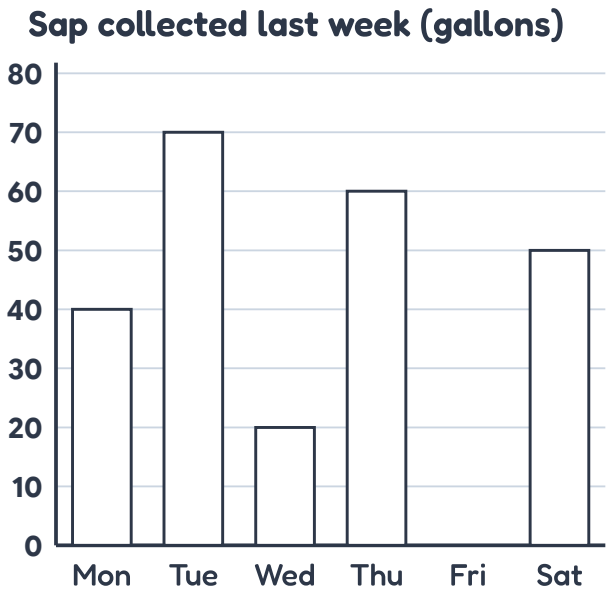
Maple Sugaring Math

Find the sap days. Then read the graph of a week of sap.



Sap runs in early spring, after a night that freezes and on a day that thaws: the low is below 32°F and the high is above 32°F. Write yes or no for each day.

Day	Low	High	Sap day?
Monday	25°	41°	yes
Tuesday	28°	45°	yes
Wednesday	35°	52°	no
Thursday	18°	29°	no
Friday	22°	38°	yes
Saturday	30°	34°	yes
Sunday	12°	24°	no
Monday	33°	47°	no



1. How many gallons of sap were collected last week in all?

240 gallons

2. How many more gallons came on Tuesday than on Wednesday?

70 − 20 = 50

50 gallons

3. At 40 to 1, how many gallons of syrup will last week's sap make?

240 ÷ 40 = 6

6 gallons

© 2026 Eggroll Games



Maple Sugaring Math

Find each time. Show your work.



Sap boils for hours over a wood fire until it turns to syrup. Water boils at 212°F. Syrup is ready **7** degrees hotter, at 219°F.

1. A family starts boiling sap at 7:00 a.m. The syrup is ready at 11:30 a.m. How long did the sap boil?

Example

4 hr **30** min

2. The fire is lit at 6:45 a.m., and the sap boils for **3** hours **30** minutes. What time is the syrup ready?

10:15 a.m.

3. The last syrup is ready at 4:20 p.m. It boiled for **5** hours **40** minutes. What time did it start?

10:40 a.m.

4. A trough of sap boils from 9:15 a.m. to 1:50 p.m. How long does it boil?

4 hr **35** min

5. A kettle of sap boils for **1** hour **45** minutes. From 8:00 a.m., **3** kettles boil one after another. When is the last done?

1:15 p.m.

6. The syrup thermometer reads 205°F. Syrup is ready at 219°F. How many more degrees must it heat up?

219 − 205 = 14

14 degrees

© 2026 Eggroll Games

Maple Sugaring Math

Fill in the table. Then solve each problem.



1 gallon = 4 quarts = 16 cups.
Families also boil syrup further into maple sugar: pressed into cakes or stirred into grains, and kept in birchbark boxes.

Gallons	1	2	3	5	6	8	10
Quarts	4	8	12	20	24	32	40
Cups	16	32	48	80	96	128	160

1. A family makes **3** gallons of syrup and pours it into quart jars. How many jars do they fill?

   $3 \times 4 = 12$

   12 jars

2. A gallon of syrup boils down into about **7** pounds of maple sugar. About how many pounds of sugar do **6** gallons make?

   $6 \times 7 = 42$

   42 pounds

3. A birchbark box holds **12** pounds of maple sugar. How many boxes are needed for **60** pounds?

   $60 \div 12 = 5$

   5 boxes

4. A family makes **50** maple sugar cakes. A basket holds **6** cakes. How many baskets do they need to carry every cake?

   $50 \div 6 = 8 \text{ R } 2$

   9 baskets

© 2026 Eggroll Games