Name _____ Date _____

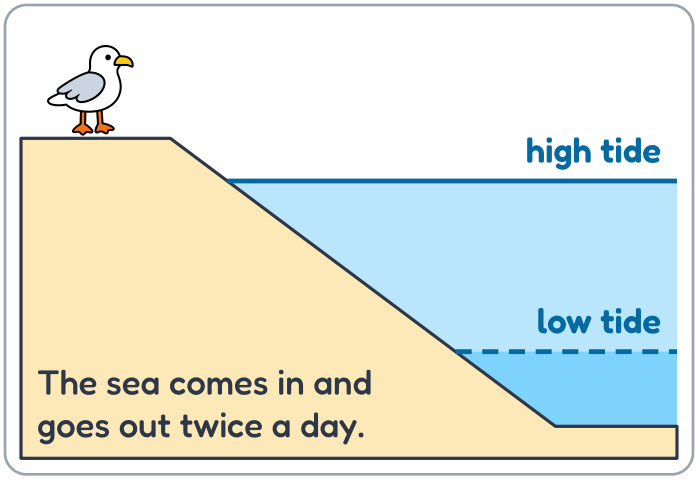


Tide Times and Beach Safety

Read the tide table for Seagull Bay. Heights are in feet.

Seagull Bay tides, Saturday

Tide	Time	Height
Low	**3:12** a.m.	**1.2** ft
High	**9:24** a.m.	**5.9** ft
Low	**3:37** p.m.	**0.8** ft
High	**9:49** p.m.	**6.3** ft



1. At what time is the first low tide of the day? Example **3:12 a.m.**

2. At what time is the first high tide? _____

3. How high is the water at that high tide? _____ feet

4. How long is it from the first low tide to the first high tide? _____

5. How long is it from one high tide to the next? _____

6. Which low tide is lower, the morning one or the afternoon one? _____

7. How much higher is the evening high tide than the afternoon low tide? _____ feet

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Name _____ Date _____



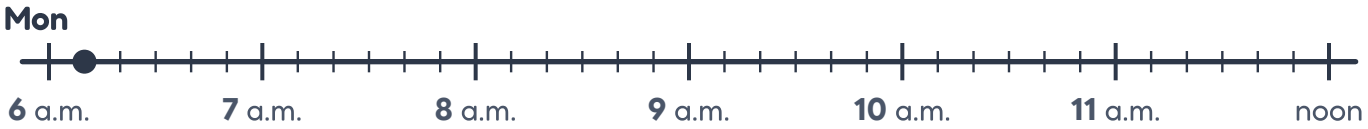
Tide Times and Beach Safety

Find each high tide. Then follow a week of tides.

Low tide to high tide takes about 6 hours 12 minutes.
Add **6** hours, then **12** more minutes, to find each high tide.

	Low tide	Add 6 hours	Add 12 minutes: high tide
1.	**2:05** a.m.	**8:05** a.m.	**8:17** a.m. Example
2.	**4:40** a.m.		
3.	**7:30** a.m.		
4.	**9:52** a.m.		
5.	**11:55** a.m.		

6. Each day the tides come about **50** minutes later than the day before. On Monday the morning high tide is at **6:10** a.m. Mark each day's morning high tide on the time line and write it.



Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

7. On which day is the morning high tide first after **10:00** a.m.? _____

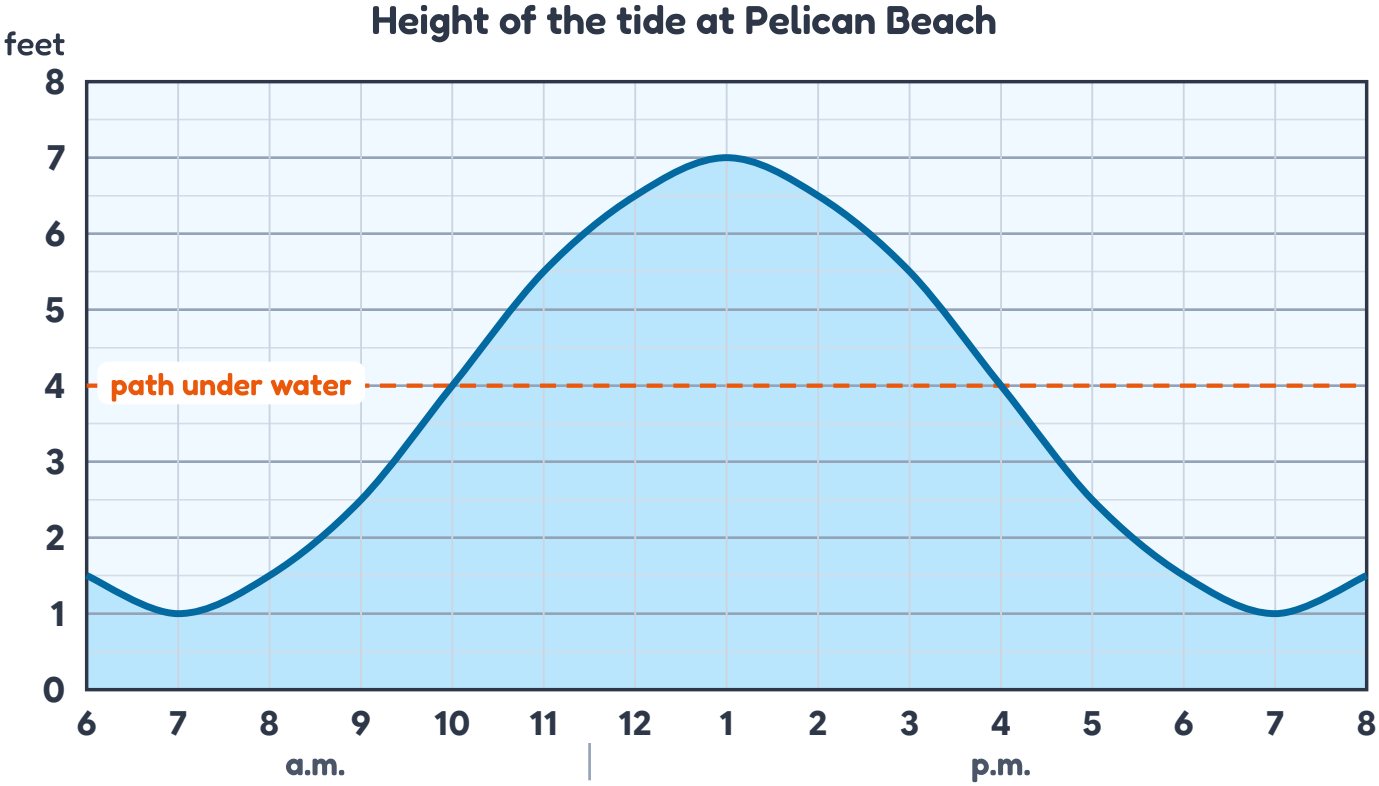
8. How much later is the high tide on Sunday than on Monday? _____

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Name _____ Date _____

Tide Times and Beach Safety

The tide graph shows one day at Pelican Beach.



1. How high is the water at **9** a.m.? Example **2.5** feet

2. How high is the water at **3** p.m.? _____ feet

3. At what time is high tide? _____

4. At what two times is it low tide? _____

5. At what time does the water first reach **6.5** feet? _____

6. The path to Gull Rock is under water when the tide is **4** feet or more. From what time to what time? _____

7. For how many hours is the path under water? _____ hours

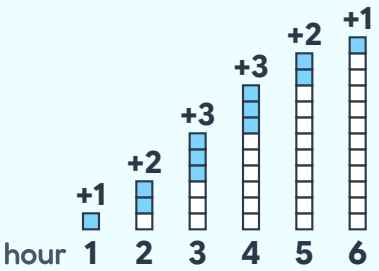
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Name _____ Date _____

Tide Times and Beach Safety

Use the rule of twelfths to find how high the water is.

The rule of twelfths
Sailors use it to guess how fast the tide comes in.
In the **6** hours from low tide to high tide, the water rises **1**, **2**, **3**, **3**, **2** and then **1** twelfths of the way.
It rises fastest in the middle hours.



1. Seagull Bay: the water rises 72 inches, from 12 to 84 inches.

One twelfth: **72** ÷ **12** = **6** inches

Example

Hour after low tide	Low tide	1st	2nd	3rd	4th	5th	6th
Twelfths		1	2	3	3	2	1
Rise (inches)		6					
Height (inches)	12	18					

2. Sandy Point: the water rises 96 inches, from 18 to 114 inches.

One twelfth: **96** ÷ **12** = _____ inches

Hour after low tide	Low tide	1st	2nd	3rd	4th	5th	6th
Twelfths		1	2	3	3	2	1
Rise (inches)							
Height (inches)	18						

3. At Seagull Bay, how much does the water rise in the first **3** hours? _____ inches

4. What fraction of the whole **72** inches is that? _____

5. At Sandy Point, how much does the water rise in the **3**rd, **4**th and **5**th hours? _____ inches

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Name _____ Date _____



Tide Times and Beach Safety

Use the tide times to plan a safe day at the beach.

1. 

Low tide is at **2:40** p.m. The tide pools are safe to explore from **1** hour before low tide until **1** hour after. When is it safe?

Example

From **1:40** p.m. to **3:40** p.m.

2. 

The walk around Driftwood Head is safe only from **2** hours before low tide until **2** hours after. Low tide is at **9:15** a.m. Mia sets off at **10:30** a.m., and the walk takes **35** minutes each way.

Safe until _____ Back at _____ In time? **Yes** **No**

3. 

The walk around Driftwood Head is safe only from **2** hours before low tide until **2** hours after. Low tide is at **11:50** a.m. Jack sets off at **12:20** p.m., and the walk takes **40** minutes each way.

Safe until _____ Back at _____ In time? **Yes** **No**

4. 

Swim only when a lifeguard is on duty. The lifeguards are on duty from **9:00** a.m. to **5:00** p.m. Leo gets to the beach at **2:40** p.m. How long can he swim?

_____ hours _____ minutes

5. 

Check the tide times before you go. High tide is at **4:50** p.m., and the sandbar out to Gull Island goes under water **2** hours before high tide. Ava starts across at **1:35** p.m. How long does she have?

Back by _____ She has _____ minutes

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Name _____ Date _____



Tide Times and Beach Safety

Read each problem. Write the answer.

1. 

High tide was at **8:35** a.m. and the next low tide was at **2:47** p.m. How long was it from high tide to low tide?

Answer: _____ hours _____ minutes

2. 

The water by the dock was **2** feet deep at low tide and **9** feet deep at high tide. How much did it rise?

Answer: _____ feet

3. 

Today's high tide is at **7:20** a.m. The tides come about **50** minutes later each day. When is the high tide **3** days from now?

Answer: _____

4. 

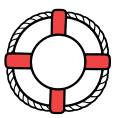
Low tide is at **12:30** p.m. The tide pools are safe until **1** hour later. Zoe gets there at **12:05** p.m. How many minutes can she stay?

Answer: _____ minutes

5. 

The tide rises **72** inches from low to high. In the **3**rd hour it rises **3** twelfths of that. How many inches is that?

Answer: _____ inches

6. 

Seagull Bay has **2** high tides every day. How many high tides does it have in **3** weeks?

Answer: _____ high tides

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Name _____ Date _____

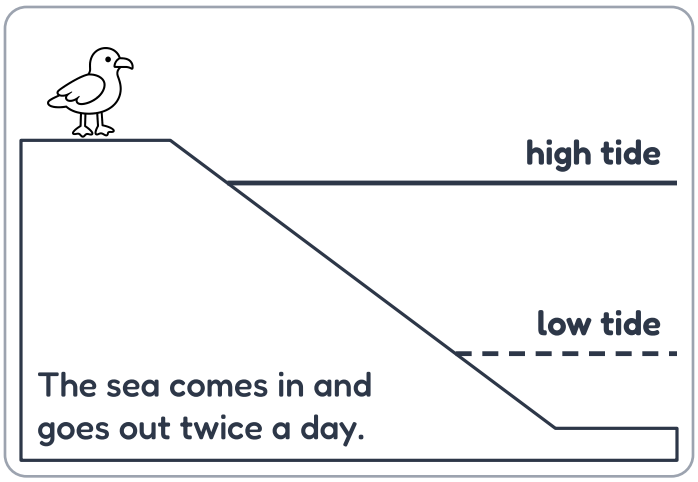


Tide Times and Beach Safety

Read the tide table for Seagull Bay. Heights are in feet.

Seagull Bay tides, Saturday

Tide	Time	Height
Low	**3:12** a.m.	**1.2** ft
High	**9:24** a.m.	**5.9** ft
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1. At what time is the first low tide of the day? Example **3:12 a.m.**

2. At what time is the first high tide? _____

3. How high is the water at that high tide? _____ feet

4. How long is it from the first low tide to the first high tide? _____

5. How long is it from one high tide to the next? _____

6. Which low tide is lower, the morning one or the afternoon one? _____

7. How much higher is the evening high tide than the afternoon low tide? _____ feet

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Name _____ Date _____



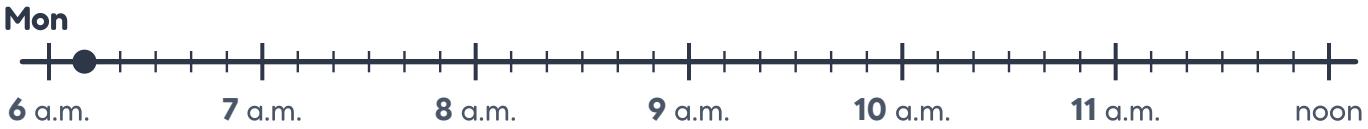
Tide Times and Beach Safety

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	Low tide	Add 6 hours	Add 12 minutes: high tide
1.	**2:05** a.m.	**8:05** a.m.	**8:17** a.m. Example
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3.	**7:30** a.m.		
4.	**9:52** a.m.		
5.	**11:55** a.m.		

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Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

7. On which day is the morning high tide first after **10:00** a.m.? _____

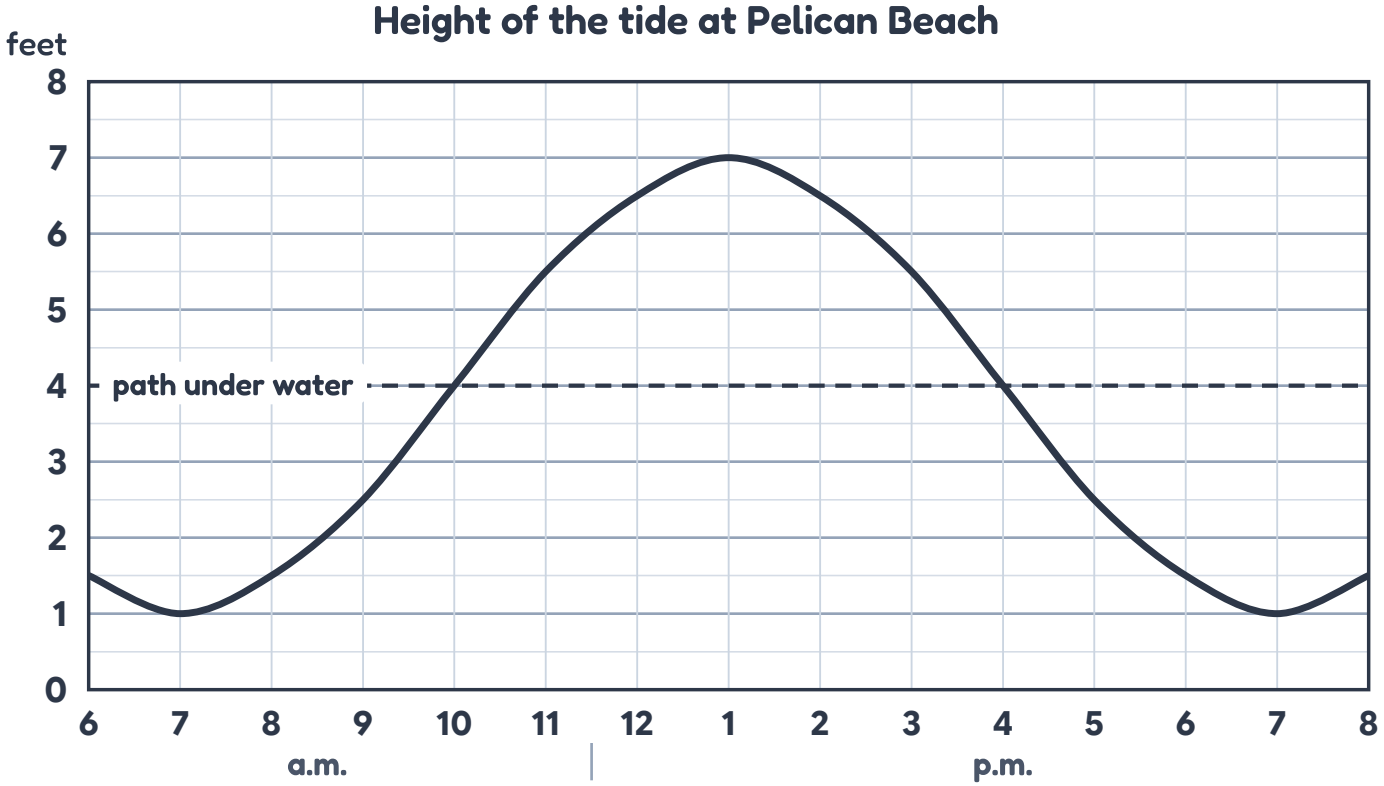
8. How much later is the high tide on Sunday than on Monday? _____

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Name _____ Date _____

Tide Times and Beach Safety

The tide graph shows one day at Pelican Beach.



1. How high is the water at **9** a.m.? Example **2.5** feet

2. How high is the water at **3** p.m.? _____ feet

3. At what time is high tide? _____

4. At what two times is it low tide? _____

5. At what time does the water first reach **6.5** feet? _____

6. The path to Gull Rock is under water when the tide is **4** feet or more. From what time to what time? _____

7. For how many hours is the path under water? _____ hours

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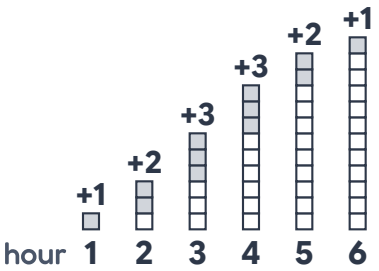
Name _____ Date _____

Tide Times and Beach Safety

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It rises fastest in the middle hours.



1. Seagull Bay: the water rises 72 inches, from 12 to 84 inches.

One twelfth: **72** ÷ **12** = **6** inches

Example

Hour after low tide	Low tide	1st	2nd	3rd	4th	5th	6th
Twelfths		1	2	3	3	2	1
Rise (inches)		6					
Height (inches)	12	18					

2. Sandy Point: the water rises 96 inches, from 18 to 114 inches.

One twelfth: **96** ÷ **12** = _____ inches

Hour after low tide	Low tide	1st	2nd	3rd	4th	5th	6th
Twelfths		1	2	3	3	2	1
Rise (inches)							
Height (inches)	18						

3. At Seagull Bay, how much does the water rise in the first **3** hours? _____ inches

4. What fraction of the whole **72** inches is that? _____

5. At Sandy Point, how much does the water rise in the **3**rd, **4**th and **5**th hours? _____ inches

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Name _____ Date _____



Tide Times and Beach Safety

Use the tide times to plan a safe day at the beach.

1. 

Low tide is at **2:40** p.m. The tide pools are safe to explore from **1** hour before low tide until **1** hour after. When is it safe?

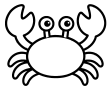
Example

From **1:40** p.m. to **3:40** p.m.

2. 

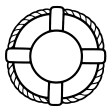
The walk around Driftwood Head is safe only from **2** hours before low tide until **2** hours after. Low tide is at **9:15** a.m. Mia sets off at **10:30** a.m., and the walk takes **35** minutes each way.

Safe until _____ Back at _____ In time? **Yes** **No**

3. 

The walk around Driftwood Head is safe only from **2** hours before low tide until **2** hours after. Low tide is at **11:50** a.m. Jack sets off at **12:20** p.m., and the walk takes **40** minutes each way.

Safe until _____ Back at _____ In time? **Yes** **No**

4. 

Swim only when a lifeguard is on duty. The lifeguards are on duty from **9:00** a.m. to **5:00** p.m. Leo gets to the beach at **2:40** p.m. How long can he swim?

_____ hours _____ minutes

5. 

Check the tide times before you go. High tide is at **4:50** p.m., and the sandbar out to Gull Island goes under water **2** hours before high tide. Ava starts across at **1:35** p.m. How long does she have?

Back by _____ She has _____ minutes

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Name _____ Date _____



Tide Times and Beach Safety

Read each problem. Write the answer.

1. 

High tide was at **8:35** a.m. and the next low tide was at **2:47** p.m. How long was it from high tide to low tide?

Answer: _____ hours _____ minutes

2. 

The water by the dock was **2** feet deep at low tide and **9** feet deep at high tide. How much did it rise?

Answer: _____ feet

3. 

Today's high tide is at **7:20** a.m. The tides come about **50** minutes later each day. When is the high tide **3** days from now?

Answer: _____

4. 

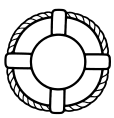
Low tide is at **12:30** p.m. The tide pools are safe until **1** hour later. Zoe gets there at **12:05** p.m. How many minutes can she stay?

Answer: _____ minutes

5. 

The tide rises **72** inches from low to high. In the **3**rd hour it rises **3** twelfths of that. How many inches is that?

Answer: _____ inches

6. 

Seagull Bay has **2** high tides every day. How many high tides does it have in **3** weeks?

Answer: _____ high tides

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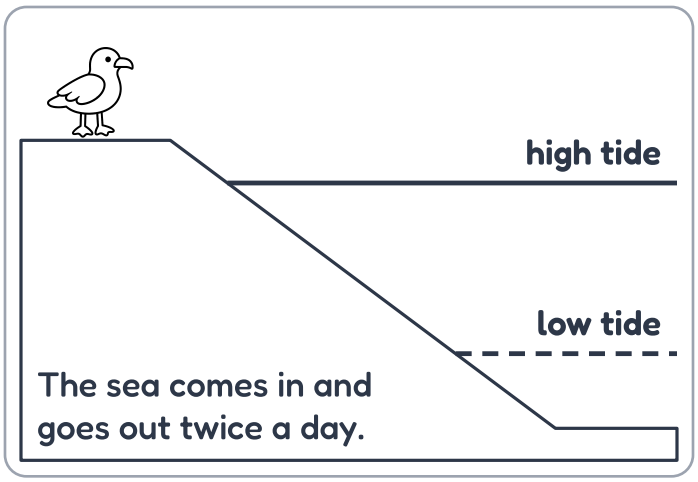


Tide Times and Beach Safety

Read the tide table for Seagull Bay. Heights are in feet.

Seagull Bay tides, Saturday

Tide	Time	Height
Low	**3:12** a.m.	**1.2** ft
High	**9:24** a.m.	**5.9** ft
Low	**3:37** p.m.	**0.8** ft
High	**9:49** p.m.	**6.3** ft



1. At what time is the first low tide of the day? Example **3:12 a.m.**

2. At what time is the first high tide? **9:24 a.m.**

3. How high is the water at that high tide? **5.9** feet

4. How long is it from the first low tide to the first high tide? **6 hours 12 minutes**

5. How long is it from one high tide to the next? **12 hours 25 minutes**

6. Which low tide is lower, the morning one or the afternoon one? **afternoon**

7. How much higher is the evening high tide than the afternoon low tide? **5.5** feet

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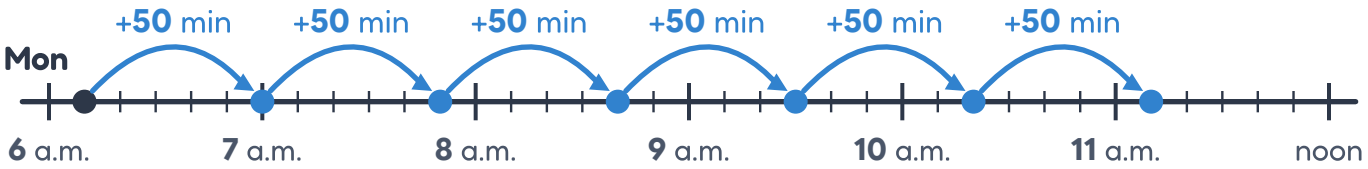
Tide Times and Beach Safety

Find each high tide. Then follow a week of tides.

Low tide to high tide takes about 6 hours 12 minutes.
Add **6** hours, then **12** more minutes, to find each high tide.

	Low tide	Add 6 hours	Add 12 minutes: high tide
1.	**2:05** a.m.	**8:05** a.m.	**8:17** a.m. Example
2.	**4:40** a.m.	**10:40** a.m.	**10:52** a.m.
3.	**7:30** a.m.	**1:30** p.m.	**1:42** p.m.
4.	**9:52** a.m.	**3:52** p.m.	**4:04** p.m.
5.	**11:55** a.m.	**5:55** p.m.	**6:07** p.m.

6. Each day the tides come about **50** minutes later than the day before. On Monday the morning high tide is at **6:10** a.m. Mark each day's morning high tide on the time line and write it.



Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
7:00 a.m.	**7:50** a.m.	**8:40** a.m.	**9:30** a.m.	**10:20** a.m.	**11:10** a.m.

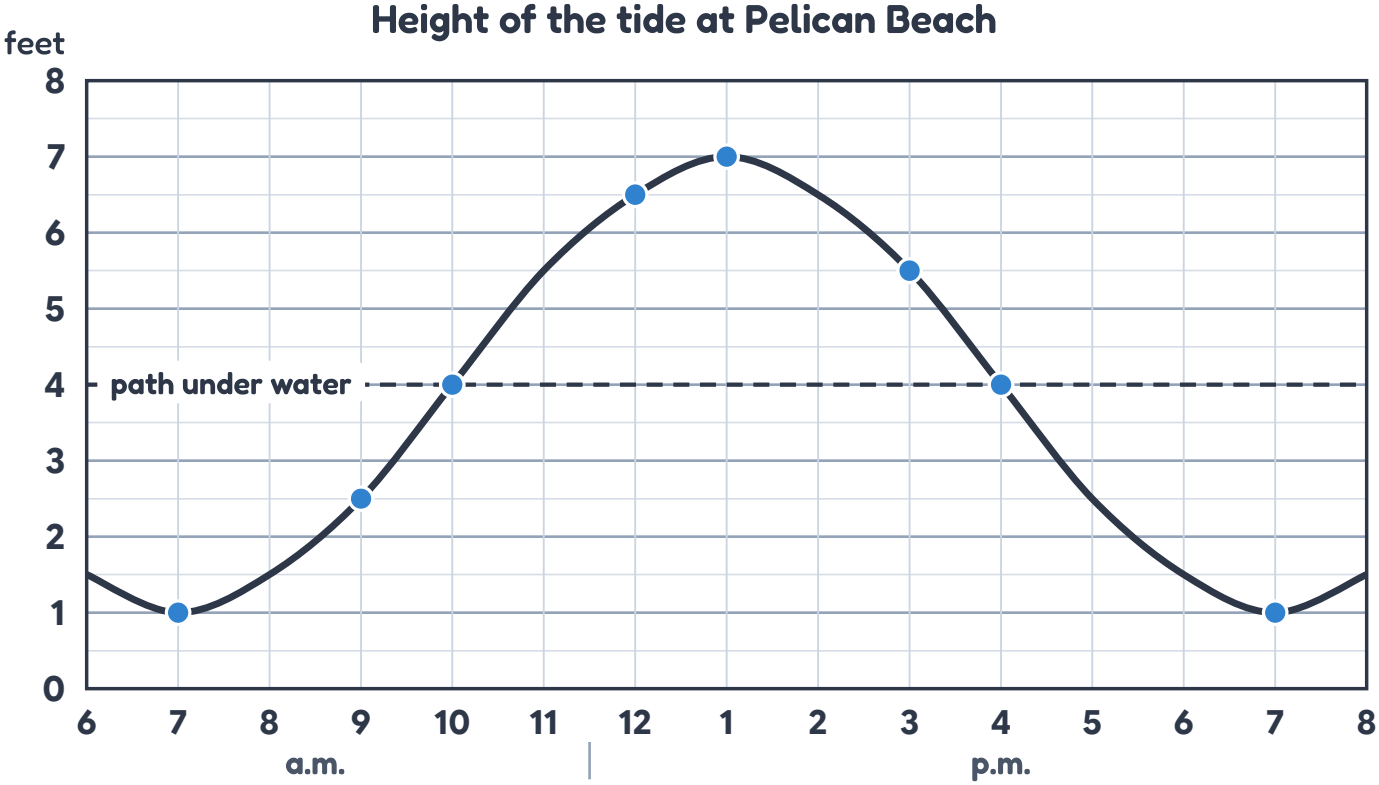
7. On which day is the morning high tide first after **10:00** a.m.? **Saturday**

8. How much later is the high tide on Sunday than on Monday? **5 hours**

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Tide Times and Beach Safety

The tide graph shows one day at Pelican Beach.



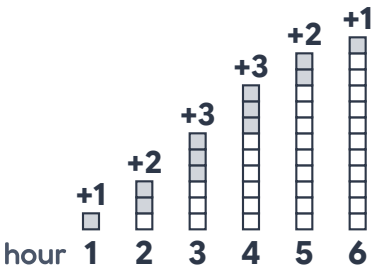
1. How high is the water at **9** a.m.? Example **2.5** feet
2. How high is the water at **3** p.m.? **5.5** feet
3. At what time is high tide? **1 p.m.**
4. At what two times is it low tide? **7 a.m. and 7 p.m.**
5. At what time does the water first reach **6.5** feet? **noon**
6. The path to Gull Rock is under water when the tide is **4** feet or more. From what time to what time? **10 a.m. to 4 p.m.**
7. For how many hours is the path under water? **6** hours

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Tide Times and Beach Safety

Use the rule of twelfths to find how high the water is.

The rule of twelfths
Sailors use it to guess how fast the tide comes in.
In the **6** hours from low tide to high tide, the water rises **1**, **2**, **3**, **3**, **2** and then **1** twelfths of the way.
It rises fastest in the middle hours.



1. **Seagull Bay: the water rises 72 inches, from 12 to 84 inches.**

One twelfth: **72** ÷ **12** = **6** inches

Example

Hour after low tide	Low tide	1st	2nd	3rd	4th	5th	6th
Twelfths		1	2	3	3	2	1
Rise (inches)		6	12	18	18	12	6
Height (inches)	12	18	30	48	66	78	84

2. **Sandy Point: the water rises 96 inches, from 18 to 114 inches.**

One twelfth: **96** ÷ **12** = **8** inches

Hour after low tide	Low tide	1st	2nd	3rd	4th	5th	6th
Twelfths		1	2	3	3	2	1
Rise (inches)		8	16	24	24	16	8
Height (inches)	18	26	42	66	90	106	114

3. At Seagull Bay, how much does the water rise in the first **3** hours? **36** inches

4. What fraction of the whole **72** inches is that? **6/12, or 1/2**

5. At Sandy Point, how much does the water rise in the **3**rd, **4**th and **5**th hours? **64** inches

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Tide Times and Beach Safety

Use the tide times to plan a safe day at the beach.

1. 

Low tide is at **2:40** p.m. The tide pools are safe to explore from **1** hour before low tide until **1** hour after. When is it safe?

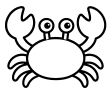
Example

From **1:40** p.m. to **3:40** p.m.

2. 

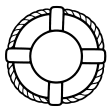
The walk around Driftwood Head is safe only from **2** hours before low tide until **2** hours after. Low tide is at **9:15** a.m. Mia sets off at **10:30** a.m., and the walk takes **35** minutes each way.

Safe until **11:15** a.m. Back at **11:40** a.m. In time? **Yes** **No**

3. 

The walk around Driftwood Head is safe only from **2** hours before low tide until **2** hours after. Low tide is at **11:50** a.m. Jack sets off at **12:20** p.m., and the walk takes **40** minutes each way.

Safe until **1:50** p.m. Back at **1:40** p.m. In time? **Yes** **No**

4. 

Swim only when a lifeguard is on duty. The lifeguards are on duty from **9:00** a.m. to **5:00** p.m. Leo gets to the beach at **2:40** p.m. How long can he swim?

2 hours **20** minutes

5. 

Check the tide times before you go. High tide is at **4:50** p.m., and the sandbar out to Gull Island goes under water **2** hours before high tide. Ava starts across at **1:35** p.m. How long does she have?

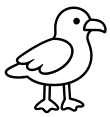
Back by **2:50** p.m. She has **75** minutes

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Tide Times and Beach Safety

Read each problem. Write the answer.

1. 

High tide was at **8:35** a.m. and the next low tide was at **2:47** p.m. How long was it from high tide to low tide?

Answer: 6 hours 12 minutes

2. 

The water by the dock was **2** feet deep at low tide and **9** feet deep at high tide. How much did it rise?

Answer: 7 feet

3. 

Today's high tide is at **7:20** a.m. The tides come about **50** minutes later each day. When is the high tide **3** days from now?

Answer: 9:50 a.m.

4. 

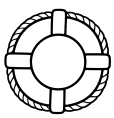
Low tide is at **12:30** p.m. The tide pools are safe until **1** hour later. Zoe gets there at **12:05** p.m. How many minutes can she stay?

Answer: 85 minutes

5. 

The tide rises **72** inches from low to high. In the **3**rd hour it rises **3** twelfths of that. How many inches is that?

Answer: 18 inches

6. 

Seagull Bay has **2** high tides every day. How many high tides does it have in **3** weeks?

Answer: 42 high tides

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