POLE MOUNTAIN LEARNING · PRINTABLE · NO DEVICE NEEDED

Bike Park Fractions: Park 1 of 4

Bike Park Loop · Grade 5



Name or class code _____ Date _____

Your trip

1. Solve each checkpoint. Show your thinking in the space beside the question.
2. Circle, write or fill in your answer on the question itself, then mark that checkpoint on the trip map.
3. Checkpoint 5 has two parts. Answer Part A, then Part B.
4. Your teacher checks each checkpoint. If you missed one, your teacher gives you the clue and you try again. Keep your first answer; write the new one beside it with a star (★).

① Start Trail	② Wooden Ramp	③ Whale Jump	④ Skinny Bridge	⑤ Pump Track & Finish
☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ A done ☐ B done ☐ fixed ★

Trick Talk (bonus, not scored · do this after checkpoint 5): backflip

In a **backflip**, the rider and bike rotate backward through one complete turn in the air before landing.

Which direction does the rider rotate in a backflip?

_____

_____

① Start Trail

Add and subtract fractions

A morning ride covers $\frac{2}{3}$ of a lap. An afternoon ride covers $\frac{3}{4}$ of the same-size lap.

How many laps were ridden altogether?

Answer: _____ laps

Write a fraction, such as 3/4, or a mixed number, such as 1 1/2. Leave out units. Equal numeric answers are accepted.

(2) Wooden Ramp

Add and subtract fractions

A route card joins $\frac{2}{3}$ of a lap and $\frac{1}{4}$ of a lap of the same-size practice loop.

Circle exactly two statements that correctly describe the total ride.

- [A] $\frac{2}{3} + \frac{1}{4} = \frac{8}{12} + \frac{3}{12}$
- [B] The total number of laps is $\frac{3}{7}$.
- [C] The total number of laps is $\frac{11}{12}$.
- [D] The total number of laps is $\frac{5}{12}$.

(3) Whale Jump

Fractions as division

A trail crew has 3 m of trail-marker tape. The trail-marker tape is shared equally among 4 trail-marker poles. Each strip represents 1 meter.

Meter 1



Meter 2



Meter 3



What length belongs in each equal share?

- (A) $1\frac{1}{3}$ m
- (B) $\frac{3}{4}$ m
- (C) $\frac{1}{4}$ m

(4) Skinny Bridge

Fractions as division

Trail-marking cord measures 11 m. It is divided into 4 equal pieces, with no cord left over.

How many meters long is each equal piece?

Answer: _____ meters

Write a fraction, such as 3/4, or a mixed number, such as 1 1/2. Leave out units. Equal numeric answers are accepted.

(5) Pump Track & Finish

Add and subtract fractions

A roll of trail-marker tape is $1\frac{1}{4}$ m long. A $\frac{2}{3}$ m piece is cut from it.

Part A

How much tape remains after the piece is cut?

(A) $\frac{7}{12}$ m

(B) $1\frac{5}{12}$ m

(C) $\frac{1}{12}$ m

Part B

Use a one-meter benchmark to check the result.

Circle one choice in the box.

The remaining tape is [less than 1 m / exactly 1 m / more than 1 m].

POLE MOUNTAIN LEARNING · PRINTABLE · NO DEVICE NEEDED

Bike Park Fractions: Park 2 of 4

Forest Flow · Grade 5



Name or class code _____ Date _____

Your trip

1. Solve each checkpoint. Show your thinking in the space beside the question.
2. Circle, write or fill in your answer on the question itself, then mark that checkpoint on the trip map.
3. Checkpoint 5 has two parts. Answer Part A, then Part B.
4. Your teacher checks each checkpoint. If you missed one, your teacher gives you the clue and you try again. Keep your first answer; write the new one beside it with a star (★).

① Timber Deck	② Forest Berm	③ Big Ramps	④ Plank Bridge	⑤ Round Mound
☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ A done ☐ B done ☐ fixed ★

① Timber Deck

Multiply fractions

A repair strip of frame-protection tape is $\frac{3}{4}$ m long. A rider uses $\frac{2}{3}$ of its length on a bike. The shading marks the available tape on a one-meter scale.

One whole meter



How many meters of tape does the rider use?

Ⓐ $\frac{1}{2}$ m

Ⓑ $\frac{5}{7}$ m

Ⓒ $\frac{3}{8}$ m

(2) Forest Berm

Multiply fractions

Each repair plan uses part of a different roll of frame-protection tape.

Order the tape lengths used, shortest to longest.

Write each card in a box.

$\frac{1}{2}$ of $1\frac{1}{2}$ m

$\frac{2}{3}$ of $1\frac{1}{5}$ m

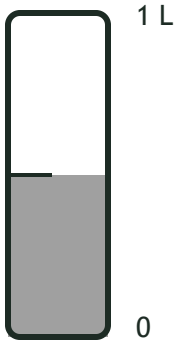
$\frac{1}{4}$ of 4 m

Shortest	Middle	Longest

(3) Big Ramps

Share a unit fraction equally

A jug contains $\frac{1}{2}$ L of water. It is poured equally into 3 cups, with none left.



One whole liter

How much water goes into each cup?

(A) $\frac{1}{5}$ L

(B) $\frac{1}{6}$ L

(C) $\frac{1}{4}$ L

4 Plank Bridge

Count fractional pieces

The trail-marker tape is 2 meters long. It is cut into pieces measuring $\frac{1}{3}$ of a meter each. None is left over.



How many equal pieces can be cut?

Answer: _____ pieces

Write a whole number.

5 Round Mound

Share a unit fraction equally

A station has $\frac{1}{3}$ L of water. All the water is shared equally among 4 cups.

Part A

Choose the calculation for one share.

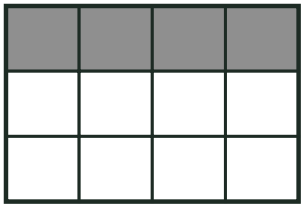
Circle one choice in the box.

The amount for each cup is found by $\frac{1}{3} \div 4$ / $4 \div \frac{1}{3}$ / $\frac{1}{3} \times 4$.

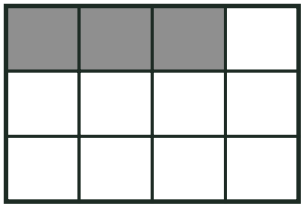
Part B

Each panel represents one whole liter. Which shaded panel shows the amount in one cup?

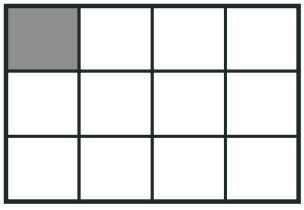
A



B



C



Trick Talk (bonus, not scored): berm

A **berm** is a banked turn. The outside edge is higher than the inside edge. The slope supports the rider as they lean into the turn, helping them carry speed through the corner.

How does the raised outside edge of a berm help a rider?

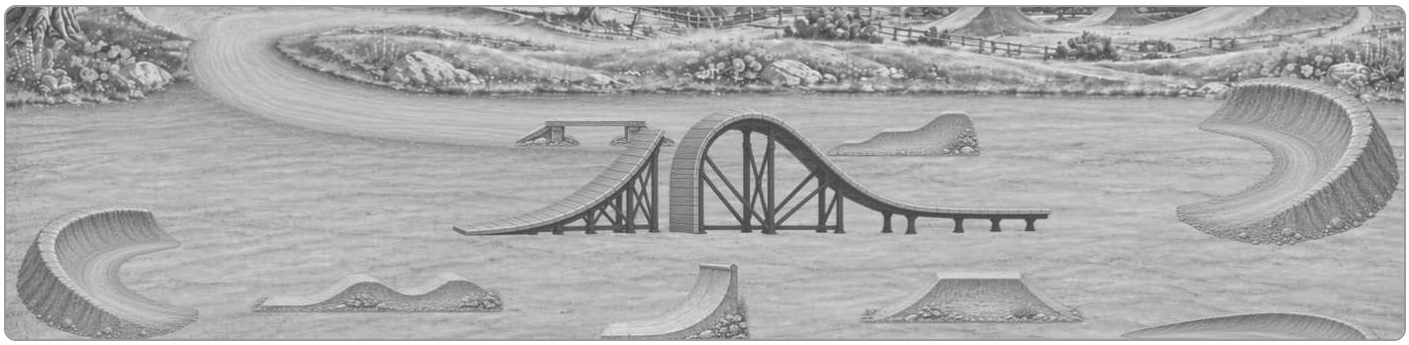
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POLE MOUNTAIN LEARNING · PRINTABLE · NO DEVICE NEEDED

Bike Park Fractions: Park 3 of 4

Community Jump Park · Grade 5



Name or class code _____ Date _____

Your trip

1. Solve each checkpoint. Show your thinking in the space beside the question.
2. Circle, write or fill in your answer on the question itself, then mark that checkpoint on the trip map.
3. Checkpoint 5 has two parts. Answer Part A, then Part B.
4. Your teacher checks each checkpoint. If you missed one, your teacher gives you the clue and you try again. Keep your first answer; write the new one beside it with a star (★).

① Skinny Bridge	② Right Berm	③ Whale Jump	④ Clay Rollers	⑤ Tabletop
☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ A done ☐ B done ☐ fixed ★

① Skinny Bridge

Add and subtract fractions

A morning ride covers $\frac{5}{6}$ of a lap. An afternoon ride covers $\frac{3}{8}$ of the same-size lap.

How many laps were ridden altogether?

Answer: _____ laps

Write a fraction, such as 3/4, or a mixed number, such as 1 1/2. Leave out units. Equal numeric answers are accepted.

② Right Berm

Add and subtract fractions

A route card joins $\frac{3}{5}$ of a lap and $\frac{1}{2}$ of a lap of the same-size practice loop.

Circle exactly two statements that correctly describe the total ride.

A $\frac{3}{5} + \frac{1}{2} = \frac{6}{10} + \frac{5}{10}$

B The total number of laps is $\frac{4}{7}$.

C The total number of laps is $\frac{1}{10}$.

D The total number of laps is $\frac{11}{10}$.

3 Whale Jump

Fractions as division

A trail crew has 5 m of trail-marker tape. The trail-marker tape is shared equally among 2 trail-marker poles. Each strip represents 1 meter.

Meter 1

Meter 2

Meter 3

Meter 4

Meter 5

What length belongs in each equal share?

(A) $2\frac{1}{2}$ m

(B) $\frac{2}{5}$ m

(C) $\frac{1}{2}$ m

4 Clay Rollers

Fractions as division

Trail-marking cord measures 7 m. It is divided into 3 equal pieces, with no cord left over.

How many meters long is each equal piece?

Answer: _____ meters

Write a fraction, such as 3/4, or a mixed number, such as 1 1/2. Leave out units. Equal numeric answers are accepted.

(5) Tabletop

Add and subtract fractions

A roll of trail-marker tape is $2\frac{1}{4}$ m long. A $1\frac{2}{8}$ m piece is cut from it.

Part A

How much tape remains after the piece is cut?

(A) $\frac{7}{8}$ m

(B) $1\frac{1}{8}$ m

(C) 1 m

Part B

Use a one-meter benchmark to check the result.

Circle one choice in the box.

The remaining tape is [less than 1 m / exactly 1 m / more than 1 m].

Trick Talk (bonus, not scored): tabletop

A **tabletop** is a jump with a flat deck between the takeoff and the landing. If a rider comes up short, the wheels can land on the flat deck.

What sits between the takeoff and landing of a tabletop jump?

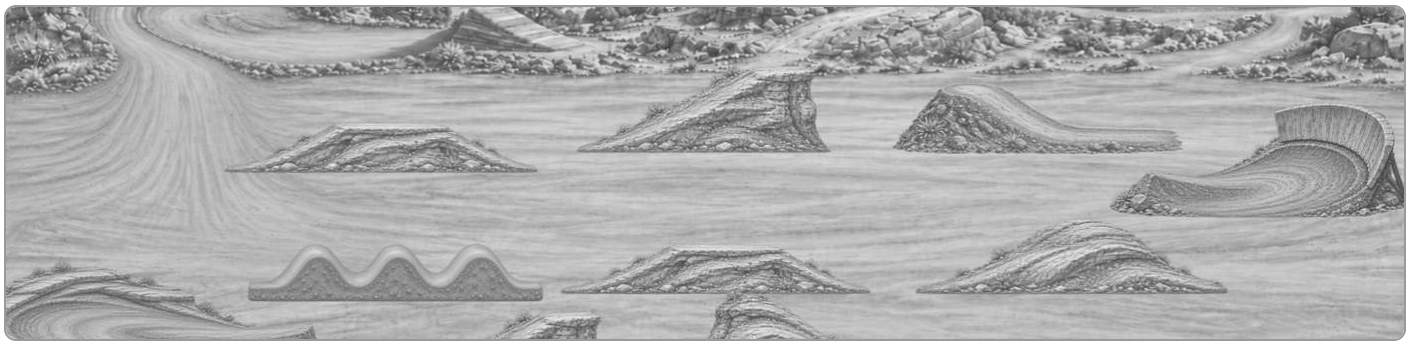
_____

_____

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Bike Park Fractions: Park 4 of 4

Moab Slickrock · Grade 5



Name or class code _____ Date _____

Your trip

1. Solve each checkpoint. Show your thinking in the space beside the question.
2. Circle, write or fill in your answer on the question itself, then mark that checkpoint on the trip map.
3. Checkpoint 5 has two parts. Answer Part A, then Part B.
4. Your teacher checks each checkpoint. If you missed one, your teacher gives you the clue and you try again. Keep your first answer; write the new one beside it with a star (★).

① Hilltop Trail	② Slickrock Curve	③ Sandstone Gap	④ Banked Wall	⑤ Red Rock Rollers
☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ done ☐ fixed ★	☐ A done ☐ B done ☐ fixed ★

① Hilltop Trail

Multiply fractions

A repair strip of frame-protection tape is $\frac{5}{6}$ m long. A rider uses $\frac{1}{2}$ of its length on a bike. The shading marks the available tape on a one-meter scale.

One whole meter



How many meters of tape does the rider use?

Ⓐ $\frac{1}{12}$ m

Ⓑ $\frac{5}{12}$ m

Ⓒ $\frac{5}{24}$ m

(2) Slickrock Curve

Multiply fractions

Each repair plan uses part of a different roll of frame-protection tape.

Order the tape lengths used, shortest to longest.

Write each card in a box.

$\frac{3}{4}$ of $1\frac{1}{3}$ m

$\frac{1}{2}$ of 3 m

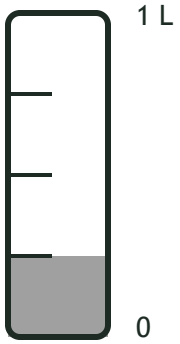
$\frac{2}{3}$ of $1\frac{1}{4}$ m

Shortest	Middle	Longest

(3) Sandstone Gap

Share a unit fraction equally

A jug contains $\frac{1}{4}$ L of water. It is poured equally into 2 cups, with none left.



One whole liter

How much water goes into each cup?

(A) $\frac{1}{16}$ L

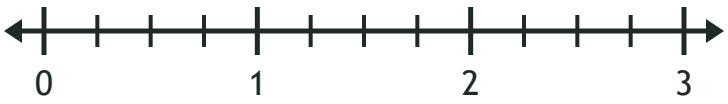
(B) $\frac{1}{12}$ L

(C) $\frac{1}{8}$ L

4 Banked Wall

Count fractional pieces

The trail-marker tape is 3 meters long. It is cut into pieces measuring $\frac{1}{4}$ of a meter each. None is left over.



How many equal pieces can be cut?

Answer: _____ pieces

Write a whole number.

5 Red Rock Rollers

Share a unit fraction equally

A station has $\frac{1}{2}$ L of water. All the water is shared equally among 3 cups.

Part A

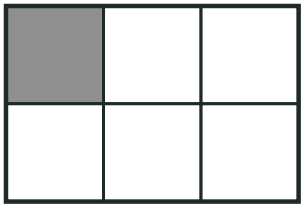
Choose the calculation for one share.

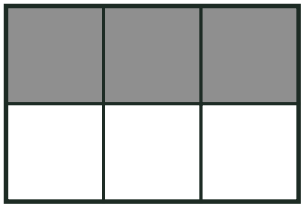
Circle one choice in the box.

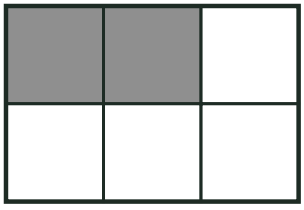
The amount for each cup is found by [$3 \div \frac{1}{2}$ / $\frac{1}{2} \times 3$ / $\frac{1}{2} \div 3$].

Part B

Each panel represents one whole liter. Which shaded panel shows the amount in one cup?

A 

B 

C 

Trick Talk (bonus, not scored): slickrock

Slickrock is smooth, bare sandstone. In Moab, Utah, riders ride right on top of it. The name is a joke from long ago: horseshoes slid on it, but its rough surface grips bike tires well.

Why can bike riders climb slickrock without sliding?

_____

_____