POLE MOUNTAIN LEARNING · PRINTABLE · NO DEVICE NEEDED

Bike Park Fractions: Park 1 of 4

Bike Park Loop · Grade 4



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?

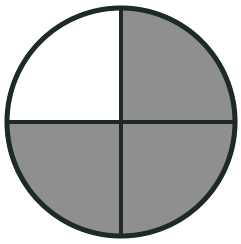
_____

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1 Start Trail

Equivalent fractions

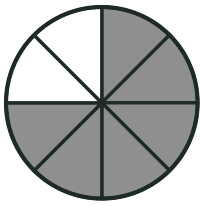
A painted circle is part of a park-sign design. All circles are the same size.



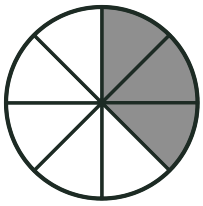
One whole sign

Which other circle has the same fraction painted?

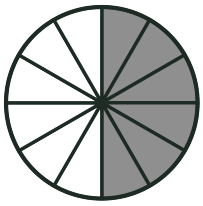
A



B



C



2 Wooden Ramp

Equivalent fractions

Two lap-board labels need to name the same distance.

One whole lap



Same lap, 10 equal parts



What top number completes $\frac{2}{5} = \frac{\square}{10}$?

Answer: _____ parts

Write a whole number.

(3) Whale Jump

Equivalent fractions

A $\frac{5}{6}$-lap distance must be rewritten with 12 on the bottom. Keep the new bottom number 12.

One whole lap



Same whole lap; new equal parts



How must the top number change to keep the distance equal?

Circle one choice in the box.

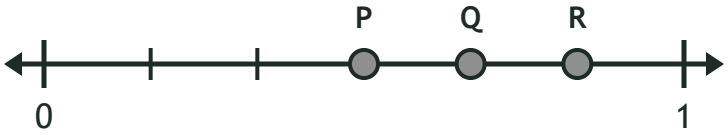
With the new bottom number fixed,

- ○ Double the top number too.
- ○ Halve the top number too.
- ○ Keep the top number unchanged.

(4) Skinny Bridge

Equivalent fractions

The practice lap is shown from start 0 to finish 1.



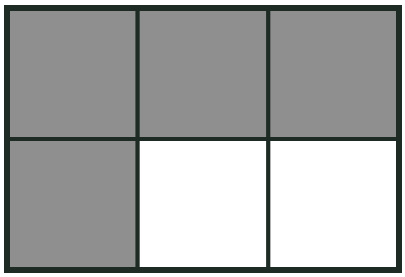
Which marker is $\frac{2}{3}$ of a lap from the start?

- (A) Marker Q
- (B) Marker P
- (C) Marker R

5 Pump Track & Finish

Equivalent fractions

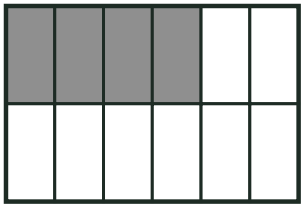
At the Whale Jump design board, equal-size sign panels use different-sized cells.

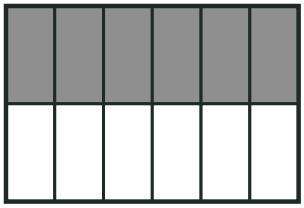


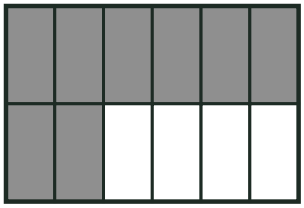
One whole sign

Part A

Each cell is split down the middle into two equal pieces. Which new panel keeps the same fraction painted?

A 

B 

C 

Part B

Compare the number of cells and the fraction painted.

Circle one choice in each box.

The number of equal cells [doubles / stays the same / halves]. The fraction of the whole sign that is painted [doubles / stays the same / halves].

POLE MOUNTAIN LEARNING · PRINTABLE · NO DEVICE NEEDED

Bike Park Fractions: Park 2 of 4

Forest Flow · Grade 4



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

Compare fractions

Each route card gives a fraction of the same practice lap.

Choose exactly two route cards showing more than half a lap.

A $\frac{5}{12}$

B $\frac{2}{3}$

C $\frac{3}{8}$

D $\frac{7}{10}$

2 Forest Berm

Compare fractions

Compare two practice distances from the same whole lap.

Choose the symbol for each comparison.

Write <, > or = in each circle.

$\frac{3}{4}$ ◯ $\frac{5}{6}$ $\frac{2}{3}$ ◯ $\frac{4}{6}$

3 Big Ramps

Compare fractions

Three practice distances will go on the route board.

Put the distance cards in order from shortest to longest.

Write each card in a box.

$\frac{2}{3}$ $\frac{4}{5}$ $\frac{3}{4}$

Shortest	Middle	Longest

4 Plank Bridge

Compare fractions

At the water station, both scales use 1 liter as the whole amount.



Water gauge: 1 L when full

Which mark shows more water? The number line measures liters (L).

(A) The number-line point.

(B) The water gauge mark.

(C) Both show the same amount.

(5) Round Mound

Compare fractions

A rider compares two practice distances: $\frac{5}{6}$ of a lap > $\frac{7}{12}$ of a lap.

Part A

Is the comparison correct, backwards or equal?

(A) The comparison is backwards.

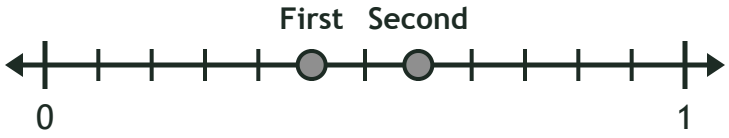
(B) The comparison is correct.

(C) The distances are equal.

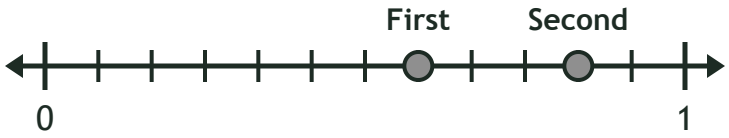
Part B

First marks $\frac{5}{6}$ of a lap. Second marks $\frac{7}{12}$ of a lap. Which number line places both distances correctly?

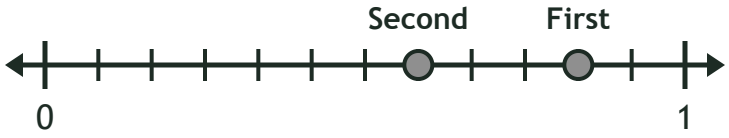
(A)



(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?

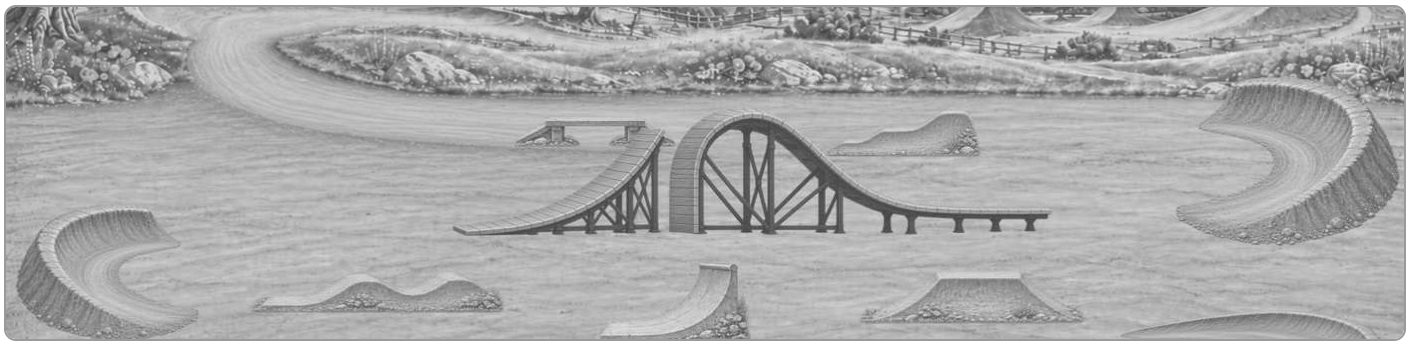
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POLE MOUNTAIN LEARNING · PRINTABLE · NO DEVICE NEEDED

Bike Park Fractions: Park 3 of 4

Community Jump Park · Grade 4



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 ★

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

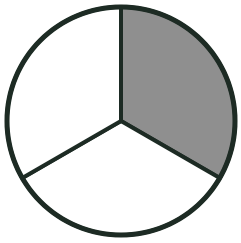
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1 Skinny Bridge

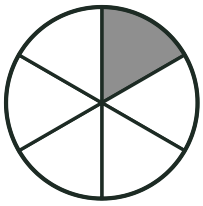
Equivalent fractions

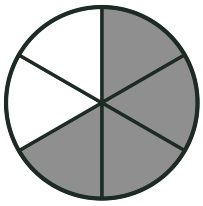
A painted circle is part of a park-sign design. All circles are the same size.

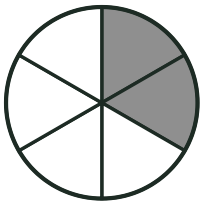


One whole sign

Which other circle has the same fraction painted?

A 

B 

C 

2 Right Berm

Equivalent fractions

Two lap-board labels need to name the same distance.

One whole lap



Same lap, 12 equal parts



What top number completes $\frac{1}{4} = \frac{\square}{12}$?

Answer: _____ parts

Write a whole number.

(3) Whale Jump

Equivalent fractions

A $\frac{6}{10}$-lap distance must be rewritten with 5 on the bottom. Keep the new bottom number 5.

One whole lap



Same whole lap; new equal parts



How must the top number change to keep the distance equal?

Circle one choice in the box.

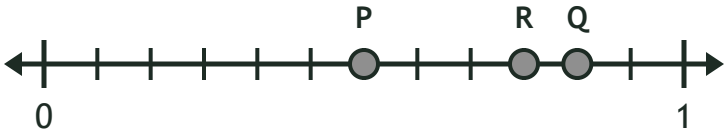
With the new bottom number fixed,

- ○ Keep the top number unchanged.
- ○ Double the top number too.
- ○ Halve the top number too.

(4) Clay Rollers

Equivalent fractions

The practice lap is shown from start 0 to finish 1.



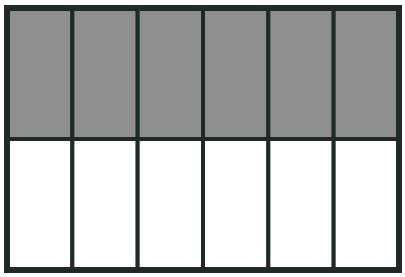
Which marker is $\frac{3}{4}$ of a lap from the start?

- (A) Marker P
- (B) Marker R
- (C) Marker Q

5 Tabletop

Equivalent fractions

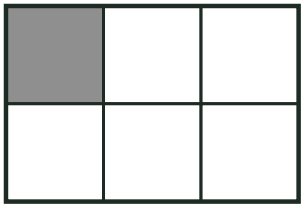
At the design board, pairs of side-by-side small cells are joined to make larger equal cells.

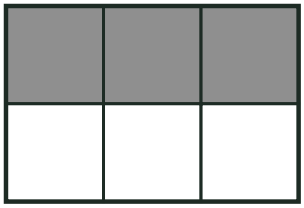


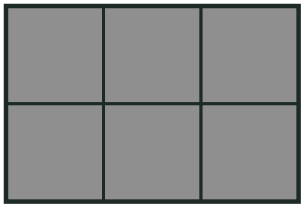
One whole sign

Part A

Each pair of side-by-side cells is joined. Which new panel keeps the same fraction painted?

A 

B 

C 

Part B

Compare the number of cells and the fraction painted.

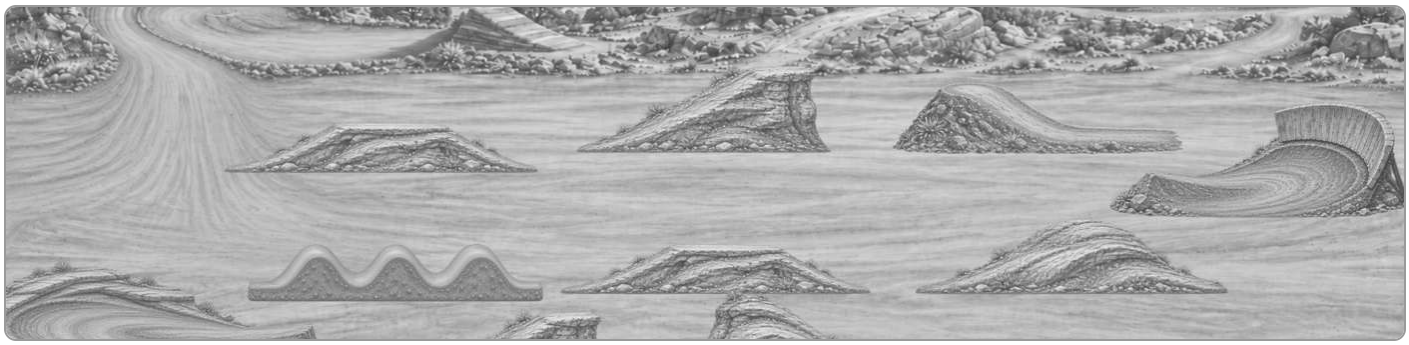
Circle one choice in each box.

The number of equal cells [doubles / stays the same / halves]. The fraction of the whole sign that is painted [doubles / stays the same / halves].

POLE MOUNTAIN LEARNING · PRINTABLE · NO DEVICE NEEDED

Bike Park Fractions: Park 4 of 4

Moab Slickrock · Grade 4



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

Compare fractions

Each route card gives a fraction of the same practice lap.

Choose exactly two route cards showing less than half a lap.

- A $\frac{4}{10}$
- B $\frac{2}{3}$
- C $\frac{1}{2}$
- D $\frac{1}{3}$

② Slickrock Curve

Compare fractions

Compare two practice distances from the same whole lap.

Choose the symbol for each comparison.

Write <, > or = in the circle.

$\frac{7}{8}$ ◯ $\frac{3}{4}$

3 Sandstone Gap

Compare fractions

Three practice distances will go on the route board.

Put the distance cards in order from shortest to longest.

Write each card in a box.

$\frac{3}{4}$ $\frac{6}{10}$ $\frac{2}{3}$

Shortest	Middle	Longest

4 Banked Wall

Compare fractions

At the water station, both scales use 1 liter as the whole amount.



Water gauge: 1 L when full

Which mark shows less water? The number line measures liters (L).

(A) The number-line point.

(B) Both show the same amount.

(C) The water gauge mark.

(5) Red Rock Rollers

Compare fractions

A rider compares two practice distances: $\frac{3}{4}$ of a lap < $\frac{5}{12}$ of a lap.

Part A

Is the comparison correct, backwards or equal?

(A) The comparison is correct.

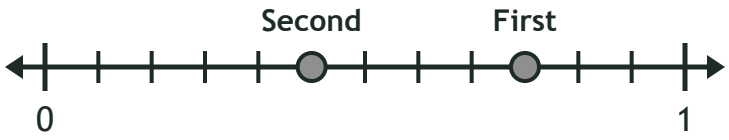
(B) The comparison is backwards.

(C) The distances are equal.

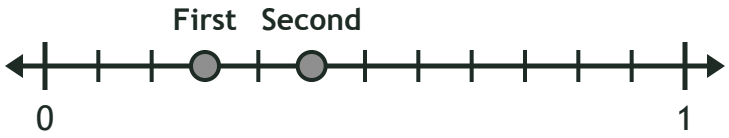
Part B

First marks $\frac{3}{4}$ of a lap. Second marks $\frac{5}{12}$ of a lap. Which number line places both distances correctly?

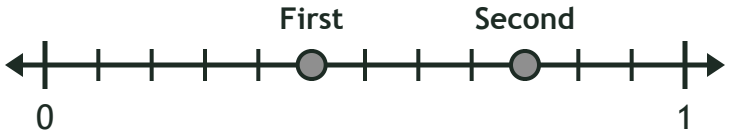
(A)



(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?

_____

_____