

Cars Overtaking and Colliding Quiz

ⓘ This is a preview of the published version of the quiz

Started: Aug 27 at 9:39am

Quiz Instructions

Round your answers to two decimal places.

Question 1

1 pts

Constant velocity slow and fast toy cars face each other. The slow car begins at position 3 meters and has velocity -4 m/s. The fast car begins at position 1 meter and has velocity 6 m/s. At what time in seconds do both cars meet?

Do not type units, only the numeric values.

Question 2

1 pts

Constant velocity slow and fast toy cars face each other. The slow car begins at position 3 meters and has velocity -4 m/s. The fast car begins at position 1 meter and has velocity 6 m/s. At what position in meters do both cars meet?

Do not type units, only the numeric values.

Question 3**1 pts**

Constant velocity slow and fast toy cars face the same direction positive direction. The slow car begins at position 20 meters and has velocity 3 m/s. The fast car begins at position 2 meters and has velocity 5 m/s. At what time in seconds do both cars meet?

Do not type units, only the numeric values.

Question 4**1 pts**

Constant velocity slow and fast toy cars face the same direction positive direction. The slow car begins at position 20 meters and has velocity 3 m/s. The fast car begins at position 2 meters and has velocity 5 m/s. At what position in meters do both cars meet?

Do not type units, only the numeric values.

Question 5**1 pts**

Constant velocity slow and fast toy cars face the same direction. The slow car begins at position 7 meters and has velocity 4 m/s. The fast car begins at position -5 meters and has velocity 5 m/s. At what time in seconds do both cars meet?

Do not type units, only the numeric values.

Question 6**1 pts**

Constant velocity slow and fast toy cars face the same direction. The slow car begins at position 7 meters and has velocity 4 m/s. The fast car begins at position -5 meter and has velocity 5 m/s. At what position in meters do both cars meet?

Do not type units, only the numeric values.

Question 7**1 pts**

Constant velocity slow and fast toy cars face the same direction. The slow car begins at position 6 meters and has velocity 2 m/s. The fast car begins at position 3 meters and has velocity 6 m/s. At what time in seconds do both cars meet?

Do not type units, only the numeric values.

Question 8**1 pts**

Constant velocity slow and fast toy cars face the same direction. The slow car begins at position 6 meters and has velocity 2 m/s. The fast car begins at position 3 meters and has velocity 6 m/s. At what position in meters do both cars meet?

Do not type units, only the numeric values.

Question 9**1 pts**

Constant velocity slow and fast toy cars face the same direction. The slow car begins at position 5 meters and has velocity 3 m/s. The fast car begins at position -7 meters and has velocity 15 m/s. At what time in seconds do both cars meet?

Do not type units, only the numeric values

Question 10**1 pts**

Constant velocity slow and fast toy cars face the same direction. The slow car begins at position 5 meters and has velocity 3 m/s. The fast car begins at position -7 meters and has velocity 15 m/s. At what position in meters do both cars meet?

Do not type units, only the numeric values

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