

**Yours is not to reason why,
just invert and multilpy.**

The point of the following questions is not so much to get the answer, but to justify your procedure (ideally in several ways) to an imaginary group of students. If you can, try to watch your own mind as it deals with each question. Where does it visualize, where does it verbalize, where does it manipulate symbols?

1. A man walks $2\frac{1}{4}$ kilometers in $\frac{3}{7}$ of an hour. How far does he walk in 1 hour?
2. A rectangular room has a floor space of 23 square meters and a width of 3.7 meters. What is its length?
3. Divide $t^3 - 1$ by $t + \frac{1}{t+1}$. If you like, the first expression could be the total revenue, the second one the total cost, of some industrial operation — both as functions of time t . You would be evaluating the average revenue per dollar spent.

**Yours is not to reason why,
just invert and multilpy.**

The point of the following questions is not so much to get the answer, but to justify your procedure (ideally in several ways) to an imaginary group of students. If you can, try to watch your own mind as it deals with each question. Where does it visualize, where does it verbalize, where does it manipulate symbols?

1. A man walks $2\frac{1}{4}$ kilometers in $\frac{3}{7}$ of an hour. How far does he walk in 1 hour?
2. A rectangular room has a floor space of 23 square meters and a width of 3.7 meters. What is its length?
3. Divide $t^3 - 1$ by $t + \frac{1}{t+1}$. If you like, the first expression could be the total revenue, the second one the total cost, of some industrial operation — both as functions of time t . You would be evaluating the average revenue per dollar spent.

**Yours is not to reason why,
just invert and multilpy.**

The point of the following questions is not so much to get the answer, but to justify your procedure (ideally in several ways) to an imaginary group of students. If you can, try to watch your own mind as it deals with each question. Where does it visualize, where does it verbalize, where does it manipulate symbols?

1. A man walks $2\frac{1}{4}$ kilometers in $\frac{3}{7}$ of an hour. How far does he walk in 1 hour?
2. A rectangular room has a floor space of 23 square meters and a width of 3.7 meters. What is its length?
3. Divide $t^3 - 1$ by $t + \frac{1}{t+1}$. If you like, the first expression could be the total revenue, the second one the total cost, of some industrial operation — both as functions of time t . You would be evaluating the average revenue per dollar spent.