Division

This problem gives you the chance to:
• relate a given division calculation to appropriate practical situations

When you calculate $100 \div 6$ using a calculator, the result is 16.6666667.

This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      
      $16.67

   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      
      17 packs

   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      
      this can't be answered

   d. How many CDs costing $6 each can be bought for $100?
      
      16 CD's

   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      
      17 miles per day

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.

   There are 100 pieces of Starburst that need to be divided between 6 kids, how many pieces does each kid get? 16 pieces
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When you calculate $100 \div 6$ using a calculator, the result is $16.6666667$.

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What does sensible answer mean?
1. Write down the sensible answers and find the question that cannot be answered using this result.
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      $16.70$
   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      $17$ packs
   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      $17.00$ about
   d. How many CDs costing $6 each can be bought for $100?
      $16$ CDs
   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      $16.70$ miles a day

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.

How much binders that cost $6 each could I get with $100 dollars.
When you calculate 100 ÷ 6 using a calculator, the result is 16.6666667.

This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.
   
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
   
      Each person will pay $16.66.

   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?

      They will need **17** packs.

   c. What is the cost per gram of shampoo costing $6 for 100 grams?

      The cost per gram would be about **$0.06**.

   d. How many CDs costing $6 each can be bought for $100?

      You can buy **16** CDs.

   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?

      The nearest mile would be **17** miles/day.

2. Write another question, together with its sensible answer, that can be answered using 100 ÷ 6.

   You are planting a garden and you need 100 seeds. There are only 6 seeds in each pack.

   How many packs of seeds do you need?

   You will need **17** packs of seeds.
When you calculate \(100 \div 6\) using a calculator, the result is 16.6666667.

This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      
      \[
      \frac{100}{6} = 16.6666667
      \]
      
      \[
      \text{\$16.67}
      \]
   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      
      \[
      \frac{100}{6} = 16.6666667
      \]
      
      \[
      17
      \]
   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      
      \[
      \frac{6}{100} = 0.06
      \]
      
      \[
      \text{\$0.06}
      \]
   d. How many CDs costing $6 each can be bought for $100?
      
      \[
      \frac{100}{6} = 16.6666667
      \]
      
      \[
      \text{16}
      \]
   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      
      \[
      \frac{100}{6} = 16.6666667
      \]
      
      \[
      17
      \]

2. Write another question, together with its sensible answer, that can be answered using \(100 \div 6\).
   Each horseshoe costs \$6, how many can you buy with a \$100 bill?
When you calculate $100 \div 6$ using a calculator, the result is $16.6666667$.

This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.
   
a. How much does each person pay when 6 people share the cost of a meal costing $100?  
   \[ \$16.67 \]

   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?  
   \[ 16 \text{ packs} \]

   c. What is the cost per gram of shampoo costing $6 for 100 grams?  
   \[ 17\$ \text{ for 1 gram} \]

   d. How many CDs costing $6 each can be bought for $100?  
   \[ 16 \text{ CDs} \]

   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?  
   \[ 17 \text{ miles} \]

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.

   100 grownups get a piece of gum  
   Gum is sold in bags of 6. How many bags are needed?  
   \[ 16 \]
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This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      $16.67$
   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      $17$
   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      Can't be done this way
   d. How many CDs costing $6 each can be bought for $100?
      $16$
   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      $17$

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.
   6 kids want to share 100 pieces of candy. How many pieces does each kid get?
   $16$ pieces
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1. Write down the sensible answers and find the question that cannot be answered using this result.

   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      $\frac{100}{6} \approx 16.67$

   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      17 packs

   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      This can't be answered.

   d. How many CDs costing $6 each can be bought for $100?
      16 CDs

   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      16.67 miles

2. Write another question, together with its sensible answer, that can be answered using 100 ÷ 6.

   A swimmer swims 100 laps in 6 minutes, how many laps does the swimmer swim per minute?
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1. Write down the sensible answers and find the question that cannot be answered using this result.
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      They each pay $16.67
   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      You need to buy 17 packs,
   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      16.6 $
   d. How many CDs costing $6 each can be bought for $100?
      16.666 CDs can be bought
   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      The hiker can travel about 17 miles

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.
   How many pieces of gum will each of the 6 children get if there are 100 pieces.
   16 pieces each
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1. Write down the sensible answers and find the question that cannot be answered using this result.
   
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      
      \[ \$16.67 \]

   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      
      \[ 17 \text{ packs} \]

   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      
      \[ \$16.67 \]

   d. How many CDs costing $6 each can be bought for $100?
      
      \[ 16 \text{ CDs} \]

   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      
      \[ \text{about 17 miles per day} \]

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.

   \[ \text{How much bubblegum can be bought with}$ \ 100 \text{ if each pack is}$ \ 6? \]
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When you calculate $100 \div 6$ using a calculator, the result is 16.6666667.

This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.

   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      Each person would pay about $16.67.

   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      17 packs are needed.

   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      not possible

   d. How many CDs costing $6 each can be bought for $100?
      16

   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      17 mile per day

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.

Q: If a pack of marbles has 6 of them, how many packs can be bought for 6 kids, using $100?
A: About 16
When you calculate 100 ÷ 6 using a calculator, the result is 16.6666667.

This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      $17.00
   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      17 packs
   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      about 17.0 grams
   d. How many CDs costing $6 each can be bought for $100?
      16 CDs
   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      about 17 miles per day

2. Write another question, together with its sensible answer, that can be answered using 100 ÷ 6.
   If you eat 6 m&ms a day until you have eaten 100 m&ms, how many days will you have eaten 6 m&ms?
When you calculate $100 \div 6$ using a calculator, the result is $16.6666667$.

This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.
   
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      
      $16.67$
   
   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      
      17 packs
   
   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      
      $16.67$
   
   d. How many CDs costing $6 each can be bought for $100?
      
      16 CDs
   
   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      
      17 miles

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.

   There are 100 balls that fit evenly in boxes. How many boxes are needed.
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1. Write down the sensible answers and find the question that cannot be answered using this result.
   
a. How much does each person pay when 6 people share the cost of a meal costing $100?
      \[
      \begin{array}{c}
      $16.6666667 \\
      100 \div 6
      \end{array}
      \]
   
b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      \[
      \begin{array}{c}
      100 \div 6 \approx 16.67 \\
      \text{p} \text{ packs}
      \end{array}
      \]
   
c. What is the cost per gram of shampoo costing $6 for 100 grams?
      \[
      \begin{array}{c}
      $0.06 \\
      6.00 \div 100
      \end{array}
      \]
   
d. How many CDs costing $6 each can be bought for $100?
      \[
      \begin{array}{c}
      16.67 \\
      6 \times 16
      \end{array}
      \]
   
e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      \[
      \begin{array}{c}
      16.6666667 \\
      100 \div 6
      \end{array}
      \]

2. Write another question, together with its sensible answer, that can be answered using \(100 \div 6\).
   
   Becky had 100 Skittles. She and her six friends split them evenly. How many Skittles did each person get?
   
   \[
   \begin{array}{c}
   100 \div 6 \\
   16
   \end{array}
   \]
When you calculate $100 \div 6$ using a calculator, the result is $16.6666667$.

This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      $16.67$
   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      17 packs
   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      not possible this way
   d. How many CDs costing $6 each can be bought for $100?
      16 CDs
   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      17 miles per day

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.
   100 dogs each get a bone. 6 bones are sold in a bag. How many bags are needed? 16
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This result can be used to give a sensible answer to all the following questions except one.

1. Write down the sensible answers and find the question that cannot be answered using this result.
   a. How much does each person pay when 6 people share the cost of a meal costing $100?
      
      About 16.67 bucks
   
   b. 100 children each need a pencil. Pencils are sold in packs of 6. How many packs are needed?
      
      17
   
   c. What is the cost per gram of shampoo costing $6 for 100 grams?
      
      don't know
   
   d. How many CDs costing $6 each can be bought for $100?
      
      16 CDs
   
   e. What is the average distance per day, to the nearest mile, traveled by a hiker on the Appalachian Trail, who covers 100 miles in 6 days?
      
      17 miles

2. Write another question, together with its sensible answer, that can be answered using $100 \div 6$.
   
   100 people want to go to Florida. How many cars would they need if every car held 6 people? 17