1. Find the quotient. Write your answer as a proper fraction, whole number or mixed number.
\[
\frac{4}{5} \div \frac{1}{2}
\]

2. Annie needs \( \frac{3}{4} \) of a cup of chocolate chips to make a recipe. She only wants to make half of the recipe. How many chocolate chips will she need?

3. Juan has \( 4\frac{1}{2} \) gallons of blue paint. Each wall in his house will need \( \frac{3}{4} \) of a gallon of paint. How many walls can Juan paint blue with the paint he has?

4. Find the quotient. Write your answer as a proper fraction, whole number or mixed number.
\[
\frac{5}{6} \div \frac{1}{3}
\]

5. Find the quotient. Write your answer as a proper fraction, whole number or mixed number.
\[
\frac{7}{8} \div \frac{1}{4}
\]

6. You want to run in a relay that is coming up. The relay is \( 1\frac{1}{2} \) miles long and each portion is \( \frac{1}{4} \) of a mile. A different person will need to run each portion of the relay. How many people will need to be on the relay team?

7. One jar of spaghetti sauce is made with \( \frac{2}{3} \) of a cup of tomatoes. How many full jars of spaghetti sauce can be made with 3 cups of tomatoes?

8. Find the quotient. Write your answer as a proper fraction, whole number or mixed number.
\[
\frac{1}{2} \div \frac{3}{4}
\]
# Dividing Multi-Digit Numbers

1. \( 15 \overline{)9630} \)  

2. Is 5783 divisible by 3? Explain why or why not.

3. Complete the pattern:  
   - \( 9 \div \underline{} = 3 \)  
   - \( 90 \div \underline{} = 3 \)  
   - \( 900 \div \underline{} = 3 \)  
   - \( 9000 \div \underline{} = 3 \)  

4. \( 4060 \div 28 \)  

5. Ellie spent $350 on 70 circus tickets. What was the cost of one ticket?

6. \( 15 \overline{)3375} \)  

7. \( 14146 \div 22 \)  

8. $240 worth of cupcakes were purchased for a birthday party. The cost of one cupcake is $4. How many cupcakes were purchased for the party?
1. Sharon paid $8.46 for 4.5 pounds of cherries. How much does one pound of cherries cost?

2. George spent $21.25 on five movie tickets. How much was each movie ticket?

3. $4.3 \times 0.7$

4. $14.2 \div 4$

5. $8.25 - 7.8$

6. $6.2 + 27.95$

7. Emerie has $14.75 left on a coffee shop gift card. She purchased a coffee for $4.93 and a cupcake for $1.55. How much money did she spend?

8. How much money does Emerie have left on her gift card now?
## COMMON FACTORS AND THE DISTRIBUTIVE PROPERTY

1. List all of the multiples of 6 that are less than 50.

2. List all the factors of 90.

3. What are the common factors of 14 and 30?

4. Use the distributive property to write an addition sentence equivalent to:
   \[ 3(2 + 8) \]

5. Re-write 40 + 16 using the distributive property and a common factor

6. What is the greatest common factor among 72 and 80?

7. What is the least common multiple between 6 and 8?

8. Use the distributive property to write an addition sentence equivalent to:
   \[ 12(5 + 4) \]
1. Yesterday the high temperature was $-3^\circ$. Today the high was $-2^\circ$. Was it warmer today or yesterday?

2. What is the relationship between $-5$ and $5$ in terms of their placement on a number line?

3. The high temperature in a northern city was $-6^\circ$ today. The high in a Caribbean city today was $+99^\circ$. How much warmer was it in the Caribbean than the northern city?

4. The top of a mountain is $2,450$ above sea level. A shipwreck was discovered $310$ feet below sea level. What is the distance between the mountain top and shipwreck?

5. Put the following numbers in order from least to greatest.

   $-3, 0, -4, -6, 5, 4$

6. Write an integer to represent this situation:

   A gain of $5$ pounds.

7. Write an integer to represent this situation:

   Spending $50$.

8. At $8$am the temperature was $-12^\circ$. At $8$pm the temperature was $-9^\circ$. When was it warmer?
## UNDERSTANDING RATIOS

1. Use ratio language to describe the relationship given below:
   - 2 dogs : 1 cat

2. Use ratio language to describe the relationship given below:
   - 5 girls : 8 boys

---

Use the given information about the students in your class to answer questions 3 - 6.

- 5 girls have blonde hair
- 3 girls have brown hair
- 7 boys have blonde hair
- 5 boys have brown hair

3. Compare the number of girls who have blonde hair to the number of girls who have brown hair using a ratio. Write your answer as a ratio and a sentence.

4. Compare the number of girls who have blonde hair to the number of boys who have blonde hair using a ratio. Write your answer as a ratio and a sentence.

5. Compare the number of boys who have blonde hair to the number of boys who have brown hair. Write your answer as a sentence.

6. Compare the number of boys who have brown hair to the number of girls who have brown hair. Write your answer as a sentence.
### UNDERSTANDING UNIT RATES

Use the information below to answer questions 1 – 4.

You just bought 4 pairs of jeans for $32.

<table>
<thead>
<tr>
<th>Question</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Write a ratio and sentence comparing the number of jeans bought to the cost.</td>
<td></td>
</tr>
<tr>
<td>2. Write a ratio and sentence comparing the cost of the jeans to the number purchased.</td>
<td></td>
</tr>
<tr>
<td>3. What is the cost of one pair of jeans?</td>
<td></td>
</tr>
<tr>
<td>4. You want to buy six pairs of jeans. How much will you spend?</td>
<td></td>
</tr>
<tr>
<td>5. You ate 10 cookies over an 8 day period. If you continue eating cookies at the same rate, how many will you have eaten after 12 days?</td>
<td></td>
</tr>
<tr>
<td>6. Five pounds of strawberries will cost $15. How much will one pound of strawberries cost?</td>
<td></td>
</tr>
<tr>
<td>7. Andy read 4 chapters in two hours. If he continues reading at the same rate, how many chapters will he have finished after five hours?</td>
<td></td>
</tr>
<tr>
<td>8. Emily purchased a pack of 6 shirts for $18. What was the cost per shirt?</td>
<td></td>
</tr>
</tbody>
</table>

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### Real World Ratio and Rate Reasoning

1. **Are these ratios equivalent?**
   
   \[
   \frac{1}{5} \quad \frac{3}{10}
   \]

2. **Complete the table of ratios.**

<table>
<thead>
<tr>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>12</td>
</tr>
</tbody>
</table>

3. **Clarence ran 15 miles in 120 minutes. If he always runs at that speed, how long will it take him to run 6 miles?**

   How fast does Clarence run per mile?

4. **A television costs $150. You have two coupons – one for 20% off, and one for $35 off. Which coupon will save you the most money?**

5. **Al’s car can travel 35 miles on one gallon of gas. He needs to travel 157.5 miles. How many gallons of gas will he need?**

6. **20% of the students in 6th grade voted in favor of school uniforms. There are 200 students in 6th grade. How many voted in favor of school uniforms?**

7. **Which is the better deal?**
   
   - 5 pounds of apples for $4.25
   - 8 pounds of apples for $6.56

8. **Arica saved 20% on a shirt she just bought. If the amount of money she saved was $6, what was the original price of the shirt?**