

Name **Guided Practice**

Solve the problem. Then tell whether the product is less than or greater than the first positive number. Write the comparison using the $<$ and $>$ symbols.

1. $8 \times 1/5 =$

2. $15 \times 0.3 =$

3. $20 \times 2/5 =$

Review Practice

Solve the problem. Then tell whether the quotient is less than or greater than the first positive number. Write the comparison using the $<$ and $>$ symbols.

1. $8/9 \div 1/9 =$

2. $3 \frac{1}{2} \div 7/8 =$

3. $120 \div 0.5 =$

Independent Practice

Choose the best answer to each question.

1. When a positive number such as 4 is multiplied by a number between 0 and 1, the result is

- A. greater than 0
- B. greater than the first positive number
- C. less than the first positive number
- D. less than 1

2. Positive 12 divided by a decimal between zero and one gives a result of

- A. greater than 12
- B. less than 12
- C. less than 1
- D. greater than 1

3. When a positive number such as 3 is divided by a rational number between zero and one, the result is

- A. greater than 0
- B. greater than 3
- C. less than 3
- D. less than 0

4. When any positive number is divided by $1/5$, the quotient will always be

- A. greater than 5
- B. less than the positive number
- C. greater than the positive number
- D. less than 5

Please fill in the blank with the correct vocabulary word.

5. Any number that can be written as a fraction is called _____.
6. The answer to a multiplication problem is called _____.
7. The _____ is the answer to a division problem.

Answer the following.

8. Explain what happens to the **product** when a positive number is **multiplied** by a rational number greater than zero and less than one.

9. Explain what happens to the **quotient** when a positive number is **divided** by a rational number greater than zero and less than one.

Answer Key mat_8_1_1_k5a_1**Guided Practice**

1. $1.6 < 8$
2. $4.5 < 15$
3. $8 < 20$

Review Practice

1. $8 > 8/9$
2. $4 > 3.5$
3. $240 > 120$

Independent Practice

1. C
2. A
3. B
4. C
5. A rational number
6. The product
7. The quotient
8. When a positive number is multiplied by a rational number greater than zero and less than one the product of this will be less than the positive number but greater than zero.
9. When a positive number is divided by a rational number greater than zero but less than one the quotient will be greater than the rational number if the dividend is greater than 1, but less than the rational number if the dividend is less than one.