Compare products without calculating

Name _____ Date _____

L stands for a positive length. Compare the two expressions without calculating the products.

Q1 / Compare the sizes

L × 2/14 ___ L × 1/7

L is positive. Compare without multiplying.

Write <, = or >: _____

Compare the multipliers and explain.

Q2 / Compare the sizes

L × 10/18 ___ L × 3/6

L is positive. Compare without multiplying.

Write <, = or >: _____

Compare the multipliers and explain.

Q3 / Compare the sizes

L × 5/5 ___ L

L is positive. Compare without multiplying.

Write <, = or >: _____

Compare the multipliers and explain.

Q4 / Compare the sizes

L × 10/9 ___ L

L is positive. Compare without multiplying.

Write <, = or >: _____

Compare the multipliers and explain.

Q5 / Compare the sizes

L × 2/8 ___ L

L is positive. Compare without multiplying.

Write <, = or >: _____

Compare the multipliers and explain.

Q6 / Compare the sizes

L × 7/10 ___ L × 4/5

L is positive. Compare without multiplying.

Write <, = or >: _____

Compare the multipliers and explain.

Compare products without calculating

Use the work in each question to choose the next practice sheet.

L stands for a positive length. Compare the two expressions without calculating the products.

Q1 / Compare the sizes

$L \times 2/14 \quad ___ \quad L \times 1/7$

L is positive. Compare without multiplying.

Comparison: =

Multipliers: 2/14 = 1/7

The same positive length appears on both sides.

Q2 / Compare the sizes

$L \times 10/18 \quad ___ \quad L \times 3/6$

L is positive. Compare without multiplying.

Comparison: >

Multipliers: 10/18 > 3/6

The same positive length appears on both sides.

Q3 / Compare the sizes

$L \times 5/5 \quad ___ \quad L$

L is positive. Compare without multiplying.

Comparison: =

Multipliers: 5/5 = 1

The same positive length appears on both sides.

Q4 / Compare the sizes

$L \times 10/9 \quad ___ \quad L$

L is positive. Compare without multiplying.

Comparison: >

Multipliers: 10/9 > 1

The same positive length appears on both sides.

Q5 / Compare the sizes

$L \times 2/8 \quad ___ \quad L$

L is positive. Compare without multiplying.

Comparison: <

Multipliers: 2/8 < 1

The same positive length appears on both sides.

Q6 / Compare the sizes

$L \times 7/10 \quad ___ \quad L \times 4/5$

L is positive. Compare without multiplying.

Comparison: <

Multipliers: 7/10 < 4/5

The same positive length appears on both sides.