

Quantitative Comparison Test 5

1. Let $a \# b$ be defined as $a^2 - b + a$

$2 \# 3$	3
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- A. The quantity on the left is greater
- B. The quantity on the right is greater
- C. Both are equal
- D. The relationship cannot be determined without further information

2. The profit from a business is to be divided in the ratio 4 to 5 between X and Y respectively.

The money X receives when the profit is \$153	\$70
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- A. The quantity on the left is greater
- B. The quantity on the right is greater
- C. Both are equal
- D. The relationship cannot be determined without further information

3.

The sum of all the positive integer divisors of 15	8
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- A. The quantity on the left is greater
- B. The quantity on the right is greater
- C. Both are equal
- D. The relationship cannot be determined without further information

4. The lengths of two sides of a triangle are 4 and 6

The length of the third side	10
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- A. The quantity on the left is greater
- B. The quantity on the right is greater
- C. Both are equal
- D. The relationship cannot be determined without further information

5. A 10-foot plank of wood is cut to give three equal lengths with a shorter length left over.

The length of one of the equal pieces	3 feet
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- A. The quantity on the left is greater
- B. The quantity on the right is greater
- C. Both are equal
- D. The relationship cannot be determined without further information

6. 28 percent of the students in Class A study German, 14 percent in Class B study German

The percentage of Class A and B combined that study German	20 percent
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7. r is the radius of circle C.

s is the circumference of circle C.

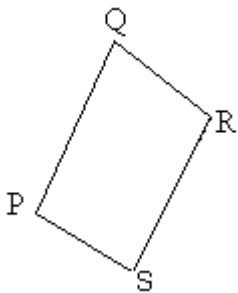
$6r$	s
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- A. The quantity on the left is greater
- B. The quantity on the right is greater
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8. $xy \neq 0$

x^2y^2	$(-xy)^2$
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- A. The quantity on the left is greater
- B. The quantity on the right is greater
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9. Figure not to scale.

Angles QPS and QRS are right angles

QR = 3 , RS = 4, and PS = 2

Side PQ	5
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- A. The quantity on the left is greater
- B. The quantity on the right is greater
- C. Both are equal
- D. The relationship cannot be determined without further information

10. $\clubsuit x = x^2 - 1$

$(\clubsuit 3)(\clubsuit 4)$	$\clubsuit 11$
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- A. The quantity on the left is greater
- B. The quantity on the right is greater
- C. Both are equal
- D. The relationship cannot be determined without further information

Answer Key

- 1. C
- 2. B
- 3. A
- 4. B
- 5. D
- 6. D
- 7. B
- 8. C
- 9. B
- 10. C