

Algebra

A024-Compound Ratios



<p>1. The ratio of $a:b$ is 2:3, and the ratio of $b:c$ is 3:5. What is the ratio of $a:c$?</p> <p>A) 5:8 C) 2:1 B) 2:5 D) 5:2</p>	<p>6. The ratio of $dibs$ to $lugs$ is 3:4. The ratio of $lugs$ to $slugs$ is 5:8. If there are 64 $slugs$, how many $dibs$ are there?</p> <p>A) 15 C) 30 B) 20 D) 35</p>
<p>2. The ratio of $a:b$ is 3:4, and the ratio of $b:c$ is 2:5. What is the ratio of $a:c$?</p> <p>A) 3:5 C) 3:10 B) 4:5 D) 12:10</p>	<p>7. The ratio of $dribs$ to $drabs$ is 4:1, and the ratio of $drabs$ to $drebs$ is 3:2. If there are 24 $drebs$, how many $dribs$ are there?</p> <p>A) 4 C) 12 B) 144 D) 48</p>
<p>3. The ratio of $p:q$ is 5:2, and the ratio of $q:r$ is 3:7. What is the ratio of $p:r$?</p> <p>A) 15:14 C) 10:21 B) 5:7 D) 7:10</p>	<p>8. In a bag, the ratio of nickels to dimes is 5:2, and the ratio of nickels to quarters is 4:1. If there are 99 nickels, dimes, and quarters total, how many dimes are there?</p> <p>A) 24 C) 16 B) 6 D) 33</p>
<p>4. The ratio of $r:s$ is 5:4, and the ratio of $r:t$ is 3:2. What is the ratio of $s:t$?</p> <p>A) 3:2 C) 6:5 B) 3:5 D) 2:1</p>	<p>9. A bag contains 261 marbles. The ratio of red marbles to white marbles is 4:3, and the ratio of red marbles to blue marbles is 3:2. How many blue marbles are there?</p> <p>A) 58 C) 64 B) 72 D) 52</p>
<p>5. The ratio of $r:s$ is 3:1, and the ratio of $r:t$ is 4:1. What is the ratio of $s:t$?</p> <p>A) 3:4 C) 4:3 B) 12:3 D) 4:1</p>	<p>10. A special recipe for salsa requires 2 yellow for every 5 red peppers and 3 red peppers for every green pepper. If the special recipe is followed and 78 total peppers were used, how many yellow peppers were used?</p> <p>A) 22 C) 25 B) 45 D) 18</p>