#### Education

## KS1 Maths Quiz - Year 2 Calculation - Multiplication (Mental Methods) (Questions)

This quiz addresses the requirements of the National Curriculum KS1 Maths and Numeracy for children aged 6 and 7 in year 2. Specifically this quiz is aimed at the section dealing with using mental methods for multiplication.

Understanding the process of multiplication can be quite a tricky challenge for some children. An introduction to this number operation will usually show that multiplication is, in fact, repeated addition. For example, the calculation of 3 x 4 is the same as 3 + 3 + 3 + 3 or 4 + 4 + 4. They are then encouraged to use mental methods to solve multiplication problems by using the number facts they have learned, for example if 3 + 3 + 3 = 9 then  $3 \times 3 = 9$ . This is closely related to the mental methods Year 2 children learn to solve division problems.

1. Which calculation 'family' would be most appropriate to describe 15 cakes? [ ] $3 \times 4 = 12$ $4 \times 3 = 12$ 3 + 3 + 3 + 3 = 12 4 + 4 + 4 = 12 [ ] $3 \times 5 = 15$ $5 \times 3 = 15$ 3 + 3 + 3 + 3 + 3 = 15 5 + 5 + 5 = 15 [ ] $5 \times 4 = 20$ $4 \times 5 = 20$ 4 + 4 + 4 + 4 = 20 5 + 5 + 5 + 5 = 20 [ ] $6 \times 4 = 24$ $4 \times 6 = 24$ 4 + 4 + 4 + 4 + 4 + 4 = 24 6 + 6 + 6 + 6 = 24	2. Which of the following calculations is correct?          []       4 × 4 = 16         []       4 + 4 + 4 = 16         []       3 = 4 = 16         []       4 + 4 + 4 + 4 = 16
<ul> <li>3. If 2 hands = 10 fingers, how many fingers will 6 hands be?</li> <li>[ ] 30 because 6 x 10 = 30</li> <li>[ ] 30 because 3 x 10 = 30</li> <li>[ ] 30 because 6 x 2 = 30</li> <li>[ ] 30 because 2 x 6 = 30</li> </ul>	<ul> <li>4. Jane makes rows of sweets. She puts 5 sweets in each row.</li> <li>If she makes 4 rows, how many sweets will she use?</li> <li>[ ] 45 because 4 x 5 = 45</li> <li>[ ] 54 because 5 x 4 = 54</li> <li>[ ] 25 because 5 x 5 = 25</li> <li>[ ] 20 because 5 x 4 or 4 x 5 = 20</li> </ul>
5. What are three lots of four?          []       4 + 3 = 12         []       3 + 3 = 12         []       3 x 4 = 12         []       3 x 3 = 12	6. Pizzas are cut into 8 slices. Which calculations show how many slices there would be if there were 3 pizzas? [ ] $3 \times 8 = 24$ $8 \times 3 = 24$ 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24 8 + 8 + 8 = 24 [ ] $2 \times 4 = 8$ $4 \times 2 = 8$ 4 + 4 = 8 2 + 2 + 2 + 2 = 8 [ ] $2 \times 8 = 16$ $8 \times 2 = 16$ 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16 8 + 8 = 16 [ ] $4 \times 8 = 32$ $8 \times 4 = 32$ 8 + 8 + 8 + 8 = 32 4 + 4 + 4 + 4 + 4 + 4 + 4 = 32

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<ul> <li>7. Which of the following calculations is correct?</li> <li>[ ] 4 x 3 = 12</li> <li>[ ] 3 x 3 = 12</li> <li>[ ] 2 x 4 = 12</li> <li>[ ] 4 x 4 x 4 = 12</li> </ul>	<pre>8. 2 x 3 = 6 so: [ ] 3 x 3 = 6 [ ] 2 + 3 = 6 [ ] 3 + 2 = 6 [ ] 3 x 2 = 6</pre>
<pre>9. 2+2+2+2 is the same as: [ ] 4x4 [ ] 2x2 [ ] 4x2 [ ] 2x2x2x2</pre>	<ul> <li>10. Which of the following calculations is incorrect?</li> <li>[ ] 2 x 6 = 12</li> <li>[ ] 6 x 2 = 12</li> <li>[ ] 2 + 2 + 2 + 2 + 2 + 2 = 12</li> <li>[ ] 4 x 4 = 12</li> </ul>

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# KS1 Maths Quiz - Year 2 Calculation - Multiplication (Mental Methods) (Answers)

1. Which calculation 'family' would be most appropriate to describe 15 cakes? [] $3 \times 4 = 12$ $4 \times 3 = 12$ 3 + 3 + 3 + 3 = 12 4 + 4 + 4 = 12 [X] $3 \times 5 = 15$ $5 \times 3 = 15$ 3 + 3 + 3 + 3 + 3 = 15 5 + 5 + 5 = 15 [] $5 \times 4 = 20$ $4 \times 5 = 20$ 4 + 4 + 4 + 4 = 20 5 + 5 + 5 + 5 = 20 [] $6 \times 4 = 24$ $4 \times 6 = 24$ 4 + 4 + 4 + 4 + 4 + 4 = 24 6 + 6 + 6 + 6 = 24 15 cakes could be arranged in 3 rows of 5, or 5 rows of 3	2. Which of the following calculations is correct?   [x] 4 × 4 = 16   [] 4 + 4 + 4 = 16   [] 3 = 4 = 16   [] 4 + 4 + 4 + 4 + 4 = 16   4 × 4 is the same as 4 + 4 + 4 + 4 = 16
<ul> <li>3. If 2 hands = 10 fingers, how many fingers will 6 hands be? <ol> <li>30 because 6 x 10 = 30</li> <li>30 because 3 x 10 = 30</li> <li>30 because 6 x 2 = 30</li> <li>30 because 2 x 6 = 30</li> </ol> </li> <li>10 + 10 + 10 = 30, this is the same as 3 x 10</li> </ul>	<ul> <li>4. Jane makes rows of sweets. She puts 5 sweets in each row.</li> <li>If she makes 4 rows, how many sweets will she use?</li> <li>[ ] 45 because 4 x 5 = 45</li> <li>[ ] 54 because 5 x 4 = 54</li> <li>[ ] 25 because 5 x 5 = 25</li> <li>[ x ] 20 because 5 x 4 or 4 x 5 = 20</li> <li>This is the same as 5 + 5 + 5 + 5</li> </ul>

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5. What are three lots of four? <ul> <li>[] 4 + 3 = 12</li> <li>[] 3 + 3 = 12</li> <li>[x] 3 × 4 = 12</li> <li>[] 3 × 3 = 12</li> </ul> This is the same as 4 + 4 + 4 or 3 + 3 + 3 + 3	6. Pizzas are cut into 8 slices. Which calculations show how many slices there would be if there were 3 pizzas? [x] $3 \times 8 = 24$ $8 \times 3 = 24$ 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24 8 + 8 + 8 = 24 [] $2 \times 4 = 8$ $4 \times 2 = 8$ 4 + 4 = 8 2 + 2 + 2 + 2 = 8 [] $2 \times 8 = 16$ $8 \times 2 = 16$ 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16 8 + 8 = 16 [] $4 \times 8 = 32$ $8 \times 4 = 32$ $8 \times 4 = 32$ 8 + 8 + 8 + 8 = 32 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 32 If each pizza has 8 slices, and there are 3 pizzas, this is the same as $8 \times 3$ or $3 \times 8$
<ul> <li>7. Which of the following calculations is correct?</li> <li>[x] 4 x 3 = 12</li> <li>[] 3 x 3 = 12</li> <li>[] 2 x 4 = 12</li> <li>[] 4 x 4 x 4 = 12</li> <li>3 x 4, 3 + 3 + 3 + 3 and 4 + 4 + 4 would also give the same</li> </ul>	<ul> <li>8. 2 x 3 = 6 so:</li> <li>[ ] 3 x 3 = 6</li> <li>[ ] 2 + 3 = 6</li> <li>[ ] 3 + 2 = 6</li> <li>[ x ] 3 x 2 = 6</li> </ul> The smaller numbers in a multiplication can go in either order
answer	
<ul> <li>9. 2+2+2+2 is the same as:</li> <li>[ ] 4×4</li> <li>[ ] 2×2</li> <li>[x] 4×2</li> <li>[ ] 2×2×2×2</li> </ul> Multiplication is the same as repeated addition	<ul> <li>10. Which of the following calculations is incorrect? <ol> <li>2 x 6 = 12</li> <li>6 x 2 = 12</li> <li>2 + 2 + 2 + 2 + 2 = 12</li> <li>2 + 2 + 2 + 2 + 2 = 12</li> </ol> </li> <li>All the others show some of the different ways 12 can be made</li> </ul>