

KS1 Maths Quiz - Year 2 Calculation - Division (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 division.

Understanding the process of division can be quite a tricky challenge for some children. Children may be initially introduced to the idea of 'sharing' equally before they are shown how to use mental methods to solve problems. This starts when they begin to understand the division facts related to the multiplication facts they are learning (for example, if they know that $2 \times 5 = 10$, then they could recognise that $10 \div 5 = 2$). They will learn that division is, in fact, the same as repeated subtraction and also understand that whilst the multiplication of two numbers can be done in any order (commutative), the division of one number by another cannot.

This quiz will help your child to solve division problems using the mental methods they have learnt.

<p>1. I know that $6 \times 3 = 18$. Which fact is the odd one out?</p> <p><input type="checkbox"/> $3 \times 6 = 18$ <input type="checkbox"/> $18 \div 6 = 3$ <input type="checkbox"/> $18 \div 3 = 6$ <input type="checkbox"/> $18 \div 9 = 2$</p>	<p>2. If I share 6 sweets equally into 3 bags, how many will be in each bag?</p> <p><input type="checkbox"/> $6 \times 2 = 3$ <input type="checkbox"/> $3 \div 2 = 6$ <input type="checkbox"/> $6 \div 3 = 2$ <input type="checkbox"/> $2 \div 3 = 6$</p>
<p>3. Which multiplication fact could help you work out $20 \div 5$?</p> <p><input type="checkbox"/> $5 \times 2 = 10$ <input type="checkbox"/> $20 \times 5 = 100$ <input type="checkbox"/> $5 \times 20 = 4$ <input type="checkbox"/> $5 \times 4 = 20$</p>	<p>4. Which two division calculations could apply to the number 8?</p> <p><input type="checkbox"/> $8 \div 4 = 2$ and $8 \div 2 = 4$ <input type="checkbox"/> $6 \div 3 = 2$ and $6 \div 2 = 3$ <input type="checkbox"/> $10 \div 2 = 5$ and $10 \div 5 = 2$ <input type="checkbox"/> $12 \div 6 = 2$ and $12 \div 2 = 6$</p>
<p>5. Division is the same as...</p> <p><input type="checkbox"/> finding the total <input type="checkbox"/> repeated subtraction <input type="checkbox"/> multiplying <input type="checkbox"/> adding up over and over again</p>	<p>6. If you know that $5 \times 2 = 10$ and $2 \times 5 = 10$, what other facts do you know?</p> <p><input type="checkbox"/> $10 \times 5 = 2$ and $2 \div 5 = 10$ <input type="checkbox"/> $2 \div 5 = 10$ and $5 \div 2 = 10$ <input type="checkbox"/> $2 \times 10 = 5$ and $5 \times 10 = 2$ <input type="checkbox"/> $10 \div 5 = 2$ and $10 \div 2 = 5$</p>
<p>7. What is 12 divided by 6?</p> <p><input type="checkbox"/> $12 \div 6 = 2$ <input type="checkbox"/> $12 \div 6 = 18$ <input type="checkbox"/> $12 \div 6 = 72$ <input type="checkbox"/> $12 \div 6 = 4$</p>	<p>8. Which division fact is incorrect?</p> <p><input type="checkbox"/> $14 \div 7 = 2$ <input type="checkbox"/> $16 \div 2 = 8$ <input type="checkbox"/> $20 \div 10 = 2$ <input type="checkbox"/> $10 \div 3 = 7$</p>
<p>9. If I divided 9 photographs into piles of 3, how many piles could I make?</p> <p><input type="checkbox"/> 9, because $9 \div 1 = 9$ <input type="checkbox"/> 3, because $9 \div 3 = 3$ <input type="checkbox"/> 1, because $9 \div 9 = 1$ <input type="checkbox"/> 27, because $9 \times 3 = 27$</p>	<p>10. 4 friends share 8 slices of pizza. How many slices will they each get?</p> <p><input type="checkbox"/> 2, because $8 \div 4 = 2$ <input type="checkbox"/> 4, because $8 \div 2 = 4$ <input type="checkbox"/> 8, because $8 \div 1 = 8$ <input type="checkbox"/> 1, because $8 \div 8 = 1$</p>

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

1. I know that $6 \times 3 = 18$. Which fact is the odd one out?

- $3 \times 6 = 18$
- $18 \div 6 = 3$
- $18 \div 3 = 6$
- $18 \div 9 = 2$

The division and multiplication facts form a 'family' of four - two division and two multiplication

2. If I share 6 sweets equally into 3 bags, how many will be in each bag?

- $6 \times 2 = 3$
- $3 \div 2 = 6$
- $6 \div 3 = 2$
- $2 \div 3 = 6$

If we divide the 6 sweets equally, there will be 2 sweets in each bag

3. Which multiplication fact could help you work out $20 \div 5$?

- $5 \times 2 = 10$
- $20 \times 5 = 100$
- $5 \times 20 = 4$
- $5 \times 4 = 20$

Knowing the multiplication tables well will help you to work out the division facts

4. Which two division calculations could apply to the number 8?

- $8 \div 4 = 2$ and $8 \div 2 = 4$
- $6 \div 3 = 2$ and $6 \div 2 = 3$
- $10 \div 2 = 5$ and $10 \div 5 = 2$
- $12 \div 6 = 2$ and $12 \div 2 = 6$

If we divide 8 tomatoes into 2 groups, there would be 4 in each group. If we divided them into 4 groups, there would be 2 in each group

5. Division is the same as...

- finding the total
- repeated subtraction
- multiplying
- adding up over and over again

$6 \div 3$ gives the same answer as taking 3 away from 6 until none remain

6. If you know that $5 \times 2 = 10$ and $2 \times 5 = 10$, what other facts do you know?

- $10 \times 5 = 2$ and $2 \div 5 = 10$
- $2 \div 5 = 10$ and $5 \div 2 = 10$
- $2 \times 10 = 5$ and $5 \times 10 = 2$
- $10 \div 5 = 2$ and $10 \div 2 = 5$

The division facts always have the largest number at the beginning

7. What is 12 divided by 6?

- $12 \div 6 = 2$
- $12 \div 6 = 18$
- $12 \div 6 = 72$
- $12 \div 6 = 4$

We could also say that $12 \div 2 = 6$

8. Which division fact is incorrect?

- $14 \div 7 = 2$
- $16 \div 2 = 8$
- $20 \div 10 = 2$
- $10 \div 3 = 7$

The others are all related to the 2 times table

9. If I divided 9 photographs into piles of 3, how many piles could I make?

- 9, because $9 \div 1 = 9$
- 3, because $9 \div 3 = 3$
- 1, because $9 \div 9 = 1$
- 27, because $9 \times 3 = 27$

If you know that $3 \times 3 = 9$, it could help you work out that $9 \div 3 = 3$

10. 4 friends share 8 slices of pizza. How many slices will they each get?

- 2, because $8 \div 4 = 2$
- 4, because $8 \div 2 = 4$
- 8, because $8 \div 1 = 8$
- 1, because $8 \div 8 = 1$

If you know that $4 \times 2 = 8$, then you could work out that $8 \div 4 = 2$