

Understanding Division: practice solutions, Grade 3 – download the PDF

Written solutions to the chapter problems. Check each step, then correct yourself.

1 Sharing stickers



The total is 12 and there are 4 shares, so we divide: $12 \div 4 = 3$.

Check: $3 \times 4 = 12$.

Answer: each friend gets 3 stickers.

2 Bags of pencils



The total is 18 and each group has 6, so we divide: $18 \div 6 = 3$.

Check: $3 \times 6 = 18$.

Answer: she can fill 3 bags.

3 Reading an array



a) There are 3 rows of 5 dots: $3 \times 5 = 15$ dots in all.

b) Splitting the 15 dots into 3 rows gives $15 \div 3 = 5$. Splitting them into columns of 3 gives $15 \div 5 = 3$.

4 Quick division facts



- a) $4 \times 5 = 20$, so $20 \div 4 = 5$.
- b) $2 \times 8 = 16$, so $16 \div 2 = 8$.
- c) $5 \times 6 = 30$, so $30 \div 5 = 6$.
- d) $3 \times 9 = 27$, so $27 \div 3 = 9$.

5 Naming the parts



The dividend is the total: **35**.

The divisor is the number we divide by: **5**.

The quotient is the answer: **7**.

6 True or false?



- a) True, because $4 \times 6 = 24$.
- b) False, because $5 \times 3 = 15$, not 18. The correct answer is $18 \div 3 = 6$ since $6 \times 3 = 18$.
- c) False. Dividing by 1 does not change the number, so $10 \div 1 = 10$.

7 Jumps on a number line



Mia starts at 21 and makes jumps of 7 until she reaches 0. She makes 3 jumps.

So the equation is $21 \div 7 = 3$.

8 Fact family of 6, 7 and 42



The product is 42, so it goes first in the divisions.

$6 \times 7 = 42$, $7 \times 6 = 42$, $42 \div 6 = 7$ and $42 \div 7 = 6$.

9**Missing numbers**

- a) $n = 56 \div 8 = 7$. Check: $8 \times 7 = 56$.
- b) $n = 63 \div 9 = 7$. Check: $7 \times 9 = 63$.
- c) $8 \times n = 72$, so $n = 9$. Check: $72 \div 9 = 8$.
- d) The total is 6 groups of 4, so $n = 6 \times 4 = 24$. Check: $24 \div 4 = 6$.

10**Dividing by 1 and by itself**

- a) $9 \div 1 = 9$, because any number divided by 1 stays the same.
- b) $0 \div 5 = 0$, because 0 cookies shared among 5 friends is 0 each.
- c) $8 \div 8 = 1$, because any number divided by itself is 1.
- d) $100 \div 1 = 100$.

11**Cherry bowls**

Total: 32. Number of bowls: 4. We divide: $32 \div 4 = 8$.

Check: $8 \times 4 = 32$.

Answer: there are 8 cherries in each bowl.

12**Field trip vans**

Total: 45 students. Each group has 9. We divide: $45 \div 9 = 5$.

Check: $5 \times 9 = 45$.

Answer: 5 vans are needed.

13 Find the mistake



No. $5 \times 40 = 200$, not 8.

The multiplication that matches $40 \div 8 = 5$ must have 40 as the product: $5 \times 8 = 40$ (or $8 \times 5 = 40$). The total 40 always stays alone on one side of the equation.

14 Dividing by 4



Use the 4 times table:

Number	8	12	20	32	36
Divided by 4	2	3	5	8	9

For example $4 \times 8 = 32$, so $32 \div 4 = 8$.

15 Pages per day



a) $54 \div 6 = 9$, because $9 \times 6 = 54$. She reads 9 pages each day.

b) $9 \times 9 = 81$. She could read 81 pages in 9 days.

16 Marbles and gifts



Step 1: $63 \div 7 = 9$, so each friend receives 9 marbles.

Step 2: $9 - 2 = 7$.

Answer: each friend has 7 marbles left.

17 The muffin sale



Number of boxes: $40 \div 5 = 8$.

Boxes left after the sale: $8 - 3 = 5$.

Muffins left: $5 \times 5 = 25$.

Answer: 25 muffins are left. (Another way: she sold $3 \times 5 = 15$ muffins and $40 - 15 = 25$.)

18 Missing dividends and divisors



a) $n \div 6 = 7$ means $n = 7 \times 6 = 42$. For $63 \div n = 9$, we need $9 \times n = 63$, so $n = 7$.

b) $36 \div 4 = 9$ and $56 \div 7 = 8$. Since $9 > 8$, $36 \div 4$ is greater.

19 Write your own problem



Many answers are possible. Here is one example of each.

Sharing: 28 marbles are shared equally among 4 children. How many marbles does each child get? $28 \div 4 = 7$, so each child gets 7 marbles.

Grouping: 28 students make teams of 4. How many teams are there? $28 \div 4 = 7$, so there are 7 teams.

Both stories use the same equation, because $7 \times 4 = 28$.

20 Can we share it?



Look at the multiples of 4: 4, 8, 12, 16, 20, 24, 28.

The number 25 is not in the list: $4 \times 6 = 24$ and $4 \times 7 = 28$. So no whole number times 4 gives 25.

Answer: Jada is not right. 25 cannot be shared equally among 4 players with no cards left over.



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