



**THIRD SPACE
LEARNING**

Word Problems

11 division questions to
develop reasoning and
problem solving skills

Grade 3

Questions

Name:

Date:

- 1 Give a real world example of $45 \div 5$.

Answer



- 2 Katrina has 36 stickers. She wants to put them in equal rows on a poster. Show two different ways she can arrange them.

- 3 Sayaka is solving $72 \div 8$. Show a multiplication equation that she can use to solve.

$$\boxed{} \times \boxed{} = \boxed{}$$

- 4 A rectangle has an area of 42 square inches. If one side is 7 inches long, how long is the other side?

Answer

- 5 Six trees have the same number of birds. There are 54 birds in all. There are ? birds in each tree.

Show a division and multiplication equation for the birds in the trees.

a $\boxed{} \div \boxed{} = \boxed{}$

b $\boxed{} \times \boxed{} = \boxed{}$

6 40 children are in the cafeteria for lunch.

a If each table has 8 chairs, how many tables are needed for all children?

Answer

b If each table has 4 chairs, how many tables are needed for all children?

Answer

7 Quinn solves $36 \div 4$ with this strategy:

$$36 = 16 + 20 = 4 \times 4 + 4 \times 5 = 4 \times (4 + 5) = 4 \times 9$$

Explain Quinn's strategy.

Answer

8 An art teacher is placing 48 buttons on the 8 tables in his art room. If each table has the same amount of buttons, how many buttons are on each table?

Answer

- 9 There are 27 pencils in boxes. Each box has \triangle pencils. There are 9 boxes in all.

Show a division and multiplication equation for the pencils in the boxes.

a

$$\boxed{} \div \boxed{} = \boxed{}$$

b

$$\boxed{} \times \boxed{} = \boxed{}$$

- 10 Give a real world example of $20 \div 2$.

Answer

Challenge Question!

Kari has two cards labeled A and B.

Can you help her work out the value of each card by using the clues?

When A is divided by B it gives the answer 4.

The difference between A and B is 9.

A

B

Answers

Question number	Question	Answers	Standard
1	Give a real world example of $45 \div 5$.	45 students who are put into groups of 5 *Answers will vary	3.OA.A.2
2	Katrina has 36 stickers. She wants to put them in equal rows on a poster. Show two different ways she can arrange them.	Two of the following: 1 row of 36, 36 rows of 1, 2 rows of 18, 18 rows of 2, 3 rows of 12, 12 rows of 3, 4 rows of 9, 9 rows of 4, 6 rows of 6	3.OA.A.3
3	Sayaka is solving $72 \div 8$. Show a multiplication equation that she can use to solve. $? \times ? = ?$	$8 \times 9 = 72$ or $9 \times 8 = 72$	3.OA.A.4 3.OA.B.6 3.OA.C.7
4	A rectangle has an area of 42 square inches. If one side is 7 inches long, how long is the other side?	6 inches	3.OA.A.3
5	Six trees have the same number of birds. There are 54 birds in all. There are ? birds in each tree. Show a division and multiplication equation for the birds in the trees. a) $? \div ? = ?$ b) $? \times ? = ?$	a) $54 \div 6 = ?$ or $54 \div ? = 6$ b) $6 \times ? = 54$ or $? \times 6 = 54$	3.OA.A.2 3.OA.A.4 3.OA.B.6 3.OA.C.7

Question number	Question	Answers	Standard
6	40 children are in the cafeteria for lunch. a) If each table has 8 chairs, how many tables are needed for all children? b) If each table has 4 chairs, how many tables are needed for all children?	a) 5 tables b) 10 tables	3.OA.A.3
7	Quinn solves $36 \div 4$ with this strategy: 36 = 16 + 20 = 4 x 4 + 4 x 5 = 4 x (4 + 5) = 4 x 9 Explain Quinn's strategy.	Quinn started by breaking up 36 into 16 and 20. Then Quinn used multiplication to figure out how many times each number was multiplied by 4. It was 4 and 5, which is 9 in total. *Answers will vary but should show understanding of the distributive property and using multiplication to solve division	3.OA.B.5
8	An art teacher is placing 48 buttons on the 8 tables in his art room. If each table has the same amount of buttons, how many buttons are on each table?	6 buttons	3.OA.A.3
9	There are 27 pencils in boxes. Each box has \triangle pencils. There are 9 boxes in all. Show a division and multiplication equation for the pencils in the boxes. a) $? \div ? = ?$ b) $? \times ? = ?$	a) $27 \div 9 = \triangle$ b) $9 \times \triangle = 27$ or $\triangle \times 9 = 27$	3.OA.A.2 3.OA.A.4 3.OA.B.6 3.OA.C.7

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Question number	Question	Answers	Standard
10	Give a real world example of $20 \div 2$.	20 cookies shared between 2 people *Answers will vary	3.OA.A.2
Challenge Question	Kari has two cards labeled A and B. Can you help her work out the value of each card by using the clues? When A is divided by B it gives the answer 4. The difference between A and B is 9.	A is 12 and B is 3.	3.OA.D.8

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