

# Division with groups of objects

**22/01/2025:** Division with multiplication, division in contexts, division by 8,7, 9,10, cut figures in equal parts, fractions, word problem identifying unit fractions, fraction in contexts

A pet store employee puts 2 snakes in a container. The store has a total of 18 snakes.

Which expression helps us find how many snake containers there are?

Choose 1 answer:

- ☐ (A)  $2 \div 18$
- ☒ (B)  $18 \div 2$
- ☐ (C)  $18 \div 1$

What problem can we solve with  $32 \div 4$ ?

Choose 1 answer:

- ☒ (A) An art museum has 4 rooms. The museum has 32 paintings and place the same number of paintings in each room. How many paintings are there in each room?
- ☐ (B) Fred has 32 rows of carrots. There are 4 carrots in each row. How many carrots does Fred have in all?
- ☐ (C) A chef needed to save 32 dishes in the kitchen. Broke 4 plates. How many plates does he have left?

There is 8 bananas divided equally into 2 lots.

Which expression will tell us how many bananas are in each pile?

Choose 1 answer:

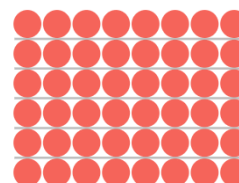
- ☒ (A)  $8 \times 2$
- ☐ (B)  $10 \div 2$
- ☐ (C)  $8 \div 2$

Which image could represent  $40 \div 10$ ?

Choose 1 answer:



Which expressions could represent the arrangement shown below?



Choose 2 answers:

- ☒ (A)  $48 \div 6$
- ☐ (B)  $6 \div 8$
- ☐ (C)  $42 \div 8$
- ☒ (D)  $48 \div 8$

# Division in context

What problem can we solve with  $64 \div 8$ ?

Choose 1 answer:

- ☒ **CORRECT (SELECTED)**  
Marco has 64 toy cars. He divides them into 8 equal groups. How many cars are in each group?
- ☐ B Daryl has 8 pencil containers. There are 64 pencils in each container. How many pencils does Daryl have in all?
- ☐ C Molly has 64 jelly beans. She eats 8 of them. How many beans does he have left?

Alex, Brian and Marta divide a box of 12 cookies evenly.

Which expression helps us find how many cookies each of the friends will receive?

Choose 1 answer:

- ☐ TO  $12 \div 2$
- ☒ **CORRECT (SELECTED)**  
 $12 \div 3$

There are 56 rooms in a hotel, evenly spaced on 7 floors.

What does the expression represent?  $56 \div 7$ ?

Choose 1 answer:

- ☐ TO Total number of rooms
- ☒ **CORRECT (SELECTED)**  
Number of rooms on each floor
- ☐ C Number of floors

## Relate multiplication and division equations

What number makes both equations true?

$$\square \times 5 = 35$$

$$35 \div \square = 5$$

Choose 1 answer:

☐ 5

☐ 6

☒ CORRECT (SELECTED)

7

Fill in the blanks to complete the table.

Hint: Use the arrangement to help you find the solution

$$7 \times \boxed{6} = 42$$

$$42 \div \boxed{6} = 7$$



Fill in the blanks.

$$14 \div \boxed{2} = 7 \text{ because } 7 \times \boxed{2} = 14.$$

# Word problems relating division to multiplication

Colleen did 18 chicken nuggets for your 3 children. Each child ate the same number of nuggets.

Which equations would help us calculate how many nuggets each child ate?

Choose 2 answers:

☒ CORRECT (SELECTED)

$$18 \div 3 = ?$$

☒ CORRECT (SELECTED)

$$3 \times ? = 18$$

Anastasia bought several packs of Clumsy Wizard trading cards. Each pack has 8 cards and Anastasia bought a total of 64 cards.

Which equations would help us calculate how many packs of cards Anastasia bought?

Choose 2 answers:

☒ CORRECT (SELECTED)

$$8 \times ? = 64$$

☐  $64 \times ? = 8$

☒ CORRECT (SELECTED)

$$64 \div 8 = ?$$

## Cut figures into equal parts

This cake is cut into 4 parts.



Is each part equal to  $\frac{1}{4}$  of the area of the cake?

Choose 1 answer:

☐ Yeah

☒ No

This cookie is divided into 4 parts.



Is each part equal to  $\frac{1}{4}$  of the cookie area?  
It doesn't matter if each part has different covers.

Choose 1 answer:

☒ Yeah

Which rectangles have shaded  $\frac{1}{2}$  from your area?

Choose all that apply:

☒ TO



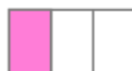
Which rectangles have shaded  $\frac{1}{3}$  from your area?

Choose all that apply:

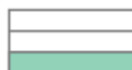
☒ CORRECT (SELECTED)



☒ CORRECT (SELECTED)



☒ CORRECT (SELECTED)



# Word problem identifying unit fractions

Denis baked a peach pie and cut it into 3 parts of the same size. Denis's dad ate 1 section of the cake.



What fraction of the cake did Denis's dad eat?

Chloe cuts the lasagna into 4 parts of the same size. Oh no! Your dog ate 1 section.



What fraction of the lasagna did your dog eat?

What fraction of the area of the circle is colored?

