

Equal groups

01 / A

Name: _____ Date: _____

① Show the groups

There are 4 bags with 3 shells in each bag. Draw the bags and shells. Write a multiplication equation for the total.



bag



shell

Draw + write your equation

② Explain your thinking

Sam says, "4 groups of 3 means $4 + 3 = 7$." Explain the mistake. Use your drawing to help.

Equal groups

01 / A

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① Show the groups

There are 4 bags with 3 shells in each bag. Draw the bags and shells. Write a multiplication equation for the total.



bag



shell

Draw + write your equation

② Explain your thinking

Sam says, "4 groups of 3 means $4 + 3 = 7$." Explain the mistake. Use your drawing to help.

Equal groups

01 / B

Name: _____ Date: _____

① Show the groups

There are 3 trays with 5 muffins on each tray. Draw the trays and muffins.
Write a multiplication equation for the total.



tray



muffin

Draw + write your equation

② Explain your thinking

Jo says, "3 groups of 5 means $3 + 5 = 8$." Explain the mistake. Use your drawing to help.

Equal groups

01 / B

Name: _____ Date: _____

① Show the groups

There are 3 trays with 5 muffins on each tray. Draw the trays and muffins.
Write a multiplication equation for the total.



tray



muffin

Draw + write your equation

② Explain your thinking

Jo says, "3 groups of 5 means $3 + 5 = 8$." Explain the mistake. Use your drawing to help.

Arrays and factor meaning

02 / A

Name: _____ Date: _____

① Build the array

Draw an array with 3 rows of 4 dots. Write how many rows and how many dots are in each row. Write a multiplication equation.

Draw + write your equation



② Explain your thinking

Imagine turning your array so it has 4 rows. How many dots are in each row now? Explain why the total stays the same.

Arrays and factor meaning

02 / A

Name: _____ Date: _____

① Build the array

Draw an array with 3 rows of 4 dots. Write how many rows and how many dots are in each row. Write a multiplication equation.

Draw + write your equation



② Explain your thinking

Imagine turning your array so it has 4 rows. How many dots are in each row now? Explain why the total stays the same.

Arrays and factor meaning

02 / B

Name: _____ Date: _____

① Build the array

Draw an array with 2 rows of 6 dots. Write how many rows and how many dots are in each row. Write a multiplication equation.

Draw + write your equation



② Explain your thinking

Imagine turning your array so it has 6 rows. How many dots are in each row now? Explain why the total stays the same.

Arrays and factor meaning

02 / B

Name: _____ Date: _____

① Build the array

Draw an array with 2 rows of 6 dots. Write how many rows and how many dots are in each row. Write a multiplication equation.

Draw + write your equation



② Explain your thinking

Imagine turning your array so it has 6 rows. How many dots are in each row now? Explain why the total stays the same.

Division: sharing equally

03 / A

Name: _____ Date: _____

① Share equally

Share 18 beads equally among 3 children. Draw or show how you share. How many beads does each child get?



Draw + write your equation

② Explain your thinking

Complete: $18 \div 3 = \underline{\quad}$. In this story, what does the 3 tell you? What does the answer tell you?

Division: sharing equally

03 / A

Name: _____ Date: _____

① Share equally

Share 18 beads equally among 3 children. Draw or show how you share. How many beads does each child get?



Draw + write your equation

② Explain your thinking

Complete: $18 \div 3 = \underline{\quad}$. In this story, what does the 3 tell you? What does the answer tell you?

Division: sharing equally

03 / B

Name: _____ Date: _____

① Share equally

Share 20 stickers equally among 4 children. Draw or show how you share. How many stickers does each child get?



Draw + write your equation

② Explain your thinking

Complete: $20 \div 4 = \underline{\quad}$. In this story, what does the 4 tell you? What does the answer tell you?

Division: sharing equally

03 / B

Name: _____ Date: _____

① Share equally

Share 20 stickers equally among 4 children. Draw or show how you share. How many stickers does each child get?



Draw + write your equation

② Explain your thinking

Complete: $20 \div 4 = \underline{\quad}$. In this story, what does the 4 tell you? What does the answer tell you?

Division: making groups

04 / A

Name: _____ Date: _____

① Make equal groups

You have 24 markers. Put 6 markers in each cup. Draw or show how you group them. How many cups do you need?



cup



marker

Draw + write your equation



② Explain your thinking

Complete: $24 \div 6 = \underline{\quad}$. What does the 6 tell you? What does the answer tell you?

Division: making groups

04 / A

Name: _____ Date: _____

① Make equal groups

You have 24 markers. Put 6 markers in each cup. Draw or show how you group them. How many cups do you need?



cup



marker

Draw + write your equation



② Explain your thinking

Complete: $24 \div 6 = \underline{\quad}$. What does the 6 tell you? What does the answer tell you?

Division: making groups

04 / B

Name: _____ Date: _____

① Make equal groups

You have 21 pencils. Put 7 pencils in each pot. Draw or show how you group them. How many pots do you need?



Draw + write your equation

② Explain your thinking

Complete: $21 \div 7 = \underline{\quad}$. What does the 7 tell you? What does the answer tell you?

Division: making groups

04 / B

Name: _____ Date: _____

① Make equal groups

You have 21 pencils. Put 7 pencils in each pot. Draw or show how you group them. How many pots do you need?



Draw + write your equation

② Explain your thinking

Complete: $21 \div 7 = \underline{\quad}$. What does the 7 tell you? What does the answer tell you?

Related multiplication and division

05 / A

Name: _____ Date: _____

① Connect the facts

Complete both equations: $6 \times \underline{\quad} = 42$ and $42 \div 6 = \underline{\quad}$. Show or explain how the equations are connected.

Draw + write your equation



② Explain your thinking

Ari says, " $42 \div 6 = 8$." Use multiplication to show why that cannot be right.

Related multiplication and division

05 / A

Name: _____ Date: _____

① Connect the facts

Complete both equations: $6 \times \underline{\quad} = 42$ and $42 \div 6 = \underline{\quad}$. Show or explain how the equations are connected.

Draw + write your equation



② Explain your thinking

Ari says, " $42 \div 6 = 8$." Use multiplication to show why that cannot be right.

Related multiplication and division

05 / B

Name: _____ Date: _____

① Connect the facts

Complete both equations: $8 \times \underline{\quad} = 48$ and $48 \div 8 = \underline{\quad}$. Show or explain how the equations are connected.

Draw + write your equation



② Explain your thinking

Lee says, " $48 \div 8 = 7$." Use multiplication to show why that cannot be right.

Related multiplication and division

05 / B

Name: _____ Date: _____

① Connect the facts

Complete both equations: $8 \times \underline{\quad} = 48$ and $48 \div 8 = \underline{\quad}$. Show or explain how the equations are connected.

Draw + write your equation



② Explain your thinking

Lee says, " $48 \div 8 = 7$." Use multiplication to show why that cannot be right.

Break apart a fact

06 / A

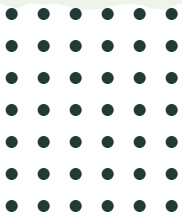
Name: _____ Date: _____

① Split the array

The array has 7 rows of 6 dots. Draw a line to split it into 5 rows and 2 rows. Label the dots in each part.

Complete: $(5 \times 6) + (2 \times 6) = \underline{\quad} + \underline{\quad} = \underline{\quad}$.

Split + label both parts



② Explain your thinking

Pat counts the first 5 rows and gets 30 dots. Then Pat adds only 2 more dots. Explain what Pat should count in the last 2 rows.

Break apart a fact

06 / A

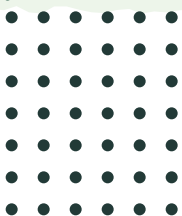
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Break apart a fact

06 / B

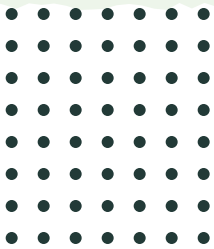
Name: _____ Date: _____

① Split the array

The array has 8 rows of 7 dots. Draw a line to split it into 5 rows and 3 rows. Label the dots in each part.

Complete: $(5 \times 7) + (3 \times 7) = \underline{\quad} + \underline{\quad} = \underline{\quad}$.

Split + label both parts



② Explain your thinking

Ren counts the first 5 rows and gets 35 dots. Then Ren adds only 3 more dots. Explain what Ren should count in the last 3 rows.

Break apart a fact

06 / B

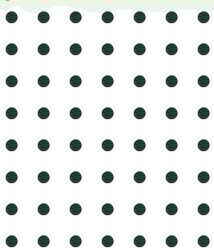
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The array has 8 rows of 7 dots. Draw a line to split it into 5 rows and 3 rows. Label the dots in each part.

Complete: $(5 \times 7) + (3 \times 7) = \underline{\quad} + \underline{\quad} = \underline{\quad}$.

Split + label both parts



② Explain your thinking

Ren counts the first 5 rows and gets 35 dots. Then Ren adds only 3 more dots. Explain what Ren should count in the last 3 rows.
