Name & Surname: _____ Class: _____ Date: _____

Arrays Add Up!

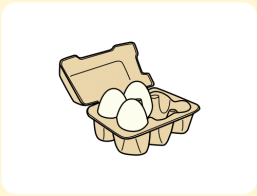
Count rows and add to find totals.

About 45 minutes Level ★★★☆☆

Arrays Are Equal Rows

An **array** shows objects in equal **rows** and equal **columns**.

- **Rows** go across from side to side.
- **Columns** go down from top to bottom.
- Add each **row** to find the **total**: 3 rows of 4 is 4 + 4 + 4 = 12.



Key words

array: objects in equal rows and columns

column: a line going down

equal: all the same number

row: a line going across

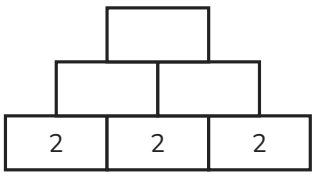
total: how many in all

Task A

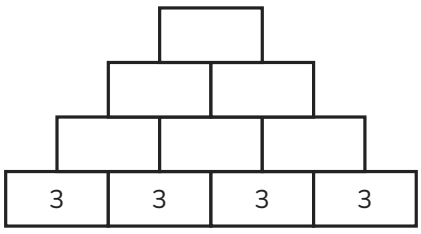
/9

Add two **neighbors** to make the brick **above**.

1



2



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Warm Up With Rows

Practice adding equal rows to find totals.

Task B

/10

Count the rows and add equal groups.

WARM UP

1. An **array** has 2 **rows** of 3. Find the **total**: 3 + 3 = ?

Answer: _____

2. An **array** has 3 **rows** of 2. Find the **total**: 2 + 2 + 2 = ?

Answer: _____

3. An **array** has 4 **rows** of 2. Find the **total**: 2 + 2 + 2 + 2 = ?

Answer: _____

PRACTICE

4. 3 **rows** of 4: 4 + 4 + 4 = ?

Answer: _____

5. 4 **rows** of 3: 3 + 3 + 3 + 3 = ?

Answer: _____

6. 5 **rows** of 2: 2 + 2 + 2 + 2 + 2 = ?

Answer: _____

7. 2 **rows** of 5: 5 + 5 = ?

Answer: _____

PROBLEM SOLVING

8. The teacher puts stickers in 3 **rows** of 4. How many **stickers** in all? 4 + 4 + 4 = ?

Answer: _____

9. A tray holds muffins in 4 **rows** of 5. How many **muffins** in all? 5 + 5 + 5 + 5 = ?

Answer: _____

10. Explain how you know 3 **rows** of 3 has 9 in the **total**.

Answer: _____

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Bigger Arrays to Add

Work with arrays up to 5 by 5.

Task C

/10

Read each array and add the equal rows.

WARM UP

1 2 **rows** of 2: 2 + 2 = ?

Answer: _____

2 2 **rows** of 4: 4 + 4 = ?

Answer: _____

3 4 **rows** of 4: 4 + 4 + 4 + 4 = ?

Answer: _____

PRACTICE

4 5 **rows** of 3: 3 + 3 + 3 + 3 + 3 = ?

Answer: _____

5 3 **rows** of 5: 5 + 5 + 5 = ?

Answer: _____

6 5 **rows** of 5: 5 + 5 + 5 + 5 + 5 = ?

Answer: _____

7 4 **rows** of 5: 5 + 5 + 5 + 5 = ?

Answer: _____

PROBLEM SOLVING

8 A student lines up crayons in 5 **rows** of 4. How many **crayons** in all? 4 + 4 + 4 + 4 + 4 = ?

Answer: _____

9 Books are stacked in 3 **rows** of 5. How many **books** in all? 5 + 5 + 5 = ?

Answer: _____

10 True or false? 4 **rows** of 2 is the same **total** as 2 **rows** of 4. Explain how you know.

Answer: _____

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Skip-Count and Compare

Count by rows and tell pairs apart.

↑↓ Task D

/6

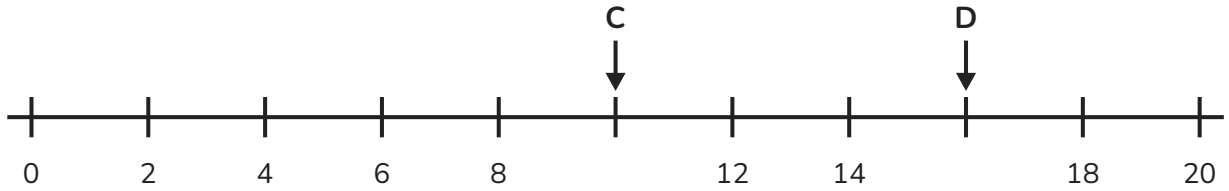
Skip-count down each row to find the total.

1



A = ☐ B = ☐ Draw an arrow to show: 9

2



C = ☐ D = ☐ Draw an arrow to show: 14

⚖ Task E

/4

Say how each pair is different.

row vs **column**

The difference is...

.....

.....

array vs **scattered group**

The difference is...

.....

.....

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Fix It and Show It

Spot mistakes and model equal rows.

Task F

/4

Find the wrong step and fix it.



Student A

An **array** has 3 **rows** of 4. Find the **total**.

1. 4 + 4 + 4
2. = 11
3. So the total is 11

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student B

Write 4 **rows** of 3 as an equal **sum**. Find the **total**.

1. 3 + 3 + 3
2. = 9
3. So the total is 9

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____

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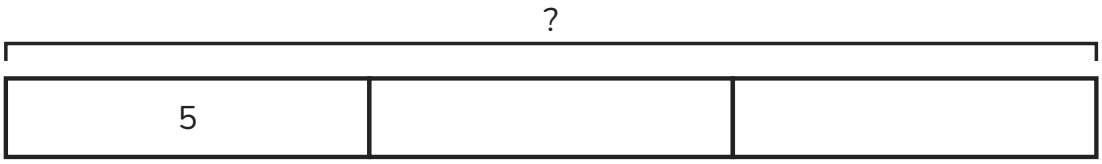
Arrays Add Up!

Task G

/4

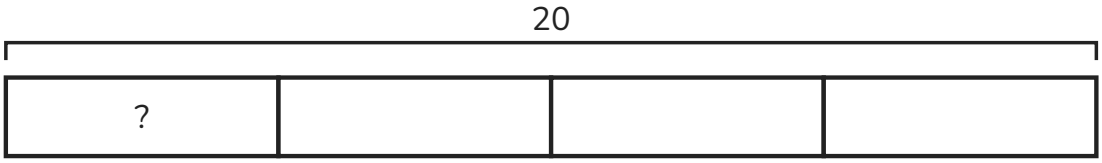
Use the bar to add equal rows.

1 A student makes an **array** with 3 **rows**. Each row has 5 dots. How many dots in **all**?



Answer: _____ **dots**

2 20 stickers are in 4 equal **rows**. How many stickers in each **row**?



Answer: _____ **stickers**

How did I do?

Circle a face for each line.

I can find the total in an array by adding equal rows.

I can write an addition equation for an array.

I can tell rows from columns.

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Answer sheet: Arrays Add Up!

Task A

1. 8 | 4, 4 | 2, 2, 2 (top to bottom)
2. 24 | 12, 12 | 6, 6, 6 | 3, 3, 3, 3 (top to bottom)

Task B

1. 6
2. 6
3. 8
4. 12
5. 12
6. 10
7. 10
8. 12 stickers
9. 20 muffins
10. I know because 3 + 3 + 3 = 9 and each row is equal.

Task C

1. 4
2. 8
3. 16
4. 15
5. 15
6. 25
7. 20
8. 20 crayons
9. 15 books
10. True, because 2 + 2 + 2 + 2 = 8 and 4 + 4 = 8.

Task D

1. A = 6; B = 12; arrows at 9
2. C = 10; D = 16; arrows at 14

Task E

1. A row goes across from side to side, but a column goes down from top to bottom.
2. An array has equal rows lined up neatly, but a scattered group does not.

Task F

1. Step 2 is wrong: They added 4 + 4 + 4 wrong. Count on: 4, 8, 12, so the total is 12. Correct answer: 12
2. Step 1 is wrong: They used only 3 addends for 4 rows. Four rows need 3 + 3 + 3 + 3. Correct answer: 12

Task G

1. 15 dots
2. 5 stickers

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