

Part A: Pair Up! Circle ODD or EVEN

Draw dots in pairs. If one is left over, it's ODD.

Number: 5 ODD / EVEN	Number: 8 ODD / EVEN	Number: 11 ODD / EVEN	Number: 14 ODD / EVEN
Number: 7 ODD / EVEN	Number: 16 ODD / EVEN	Number: 9 ODD / EVEN	Number: 12 ODD / EVEN

Part B: Decompose to Prove!

Write each number as a sum of two equal addends (even) or two equal addends + 1 (odd).

$$6 = \underline{\quad} + \underline{\quad} \text{ (even)}$$

$$9 = \underline{\quad} + \underline{\quad} + 1 \text{ (odd)}$$

$$10 = \underline{\quad} + \underline{\quad} (\quad)$$

$$13 = \underline{\quad} + \underline{\quad} + 1 (\quad)$$

$$18 = \underline{\quad} + \underline{\quad} (\quad)$$

$$15 = \underline{\quad} + \underline{\quad} + 1 (\quad)$$

Part C: What happens when you add...?

even + even = $\underline{\quad}$ Example: $4 + 6 = \underline{\quad}$ Is the answer odd or even? $\underline{\quad}$

odd + odd = $\underline{\quad}$ Example: $3 + 5 = \underline{\quad}$ Is the answer odd or even? $\underline{\quad}$

even + odd = $\underline{\quad}$ Example: $4 + 3 = \underline{\quad}$ Is the answer odd or even? $\underline{\quad}$

Write the RULE you discovered: $\underline{\hspace{10cm}}$

Part A: Draw Arrays and Write Repeated Addition

Draw: 3 rows of 4

Array:

Repeated Addition:

$$4 + 4 + \dots = \underline{\hspace{2cm}}$$

$$3 \text{ rows} \times 4 \text{ columns} = \underline{\hspace{2cm}} \text{ total}$$

Draw: 2 rows of 5

Array:

Repeated Addition:

$$5 + 5 + \dots = \underline{\hspace{2cm}}$$

$$2 \text{ rows} \times 5 \text{ columns} = \underline{\hspace{2cm}} \text{ total}$$

Draw: 4 rows of 3

Array:

Repeated Addition:

$$3 + 3 + \dots = \underline{\hspace{2cm}}$$

$$4 \text{ rows} \times 3 \text{ columns} = \underline{\hspace{2cm}} \text{ total}$$

Part B: Real-World Arrays

1. A muffin pan has 3 rows with 4 muffins in each row. How many muffins?

Draw the array: Equation: $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

2. A garden has 5 rows with 2 flowers in each row. How many flowers?

Draw the array: Equation: $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

3. Write your OWN array word problem:

My Array Problem:

Part A: Estimate, Then Measure!

Find each object. First ESTIMATE the length, then MEASURE with a ruler.

Object	Estimate (inches)	Actual (inches)	Estimate (cm)	Actual (cm)
Your pencil				
A book				
Your hand span				
A crayon				
Your shoe				
A paperclip				

Part B: Comparing Measurements

1. Which object was the longest? _____
2. Which was the shortest? _____
3. Were your estimates close to the actual measurements? Explain.

Part A: Same Object, Different Units!

Measure the same object in INCHES and CENTIMETERS. Compare!

1. Your desk edge: _____ inches = _____ cm
2. A piece of string: _____ inches = _____ cm
3. Your arm length: _____ inches = _____ cm

Which number is always **BIGGER** - inches or centimeters? _____

Why? _____

Part B: Estimate First!

Without measuring, estimate the length. Then check with a ruler.

A new pencil: Estimate: about 7 inches Actual: _____ inches

A dollar bill: Estimate: about 6 inches Actual: _____ inches

Your math book: Estimate: about ____ inches Actual: _____ inches

A paper clip: Estimate: about ____ inches Actual: _____ inches

Part C: Measurement Word Problem

A ribbon is 18 inches long. You cut off 7 inches. How long is the ribbon now?

Draw a picture: _____ Equation: ____ - ____ = ____ inches

A rope is 24 cm long. Another rope is 15 cm long.

How much longer is the first rope? Show your work.

Work Space:

Solve each measurement word problem. Draw a picture and write an equation!

1. Lizard Lengths

A green lizard is 14 cm long. A brown lizard is 9 cm long.
How much longer is the green lizard?

Draw & Solve:

2. Growing Plants

Mia's plant was 8 inches tall. It grew 6 more inches.
How tall is it now?

Draw & Solve:

3. Ribbon Cutting

Tom has a ribbon that is 30 cm long. He cuts off 12 cm for
a bow and 8 cm for a tag. How much ribbon is left?

Draw & Solve:

4. Building Towers

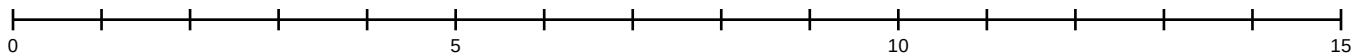
Emma built a tower 25 inches tall. Then she added 13 more
inches. Her friend's tower is 32 inches. Whose is taller? By how much?

Draw & Solve:

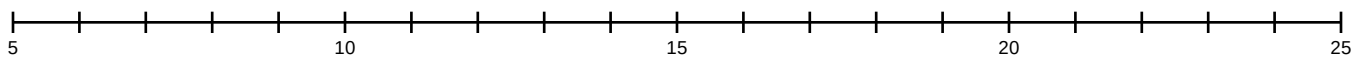
Part A: Addition on a Number Line

Show each problem on the number line by drawing jumps.

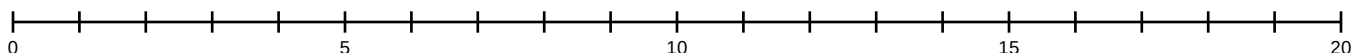
$7 + 5 = \underline{\quad}$



$12 + 8 = \underline{\quad}$



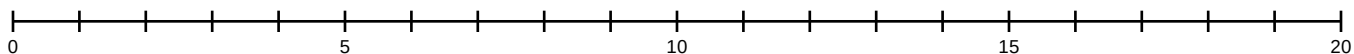
$9 + 6 = \underline{\quad}$



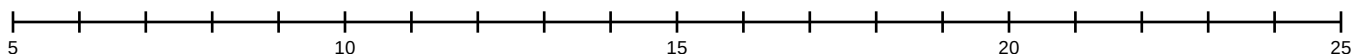
Part B: Subtraction on a Number Line

Show each subtraction by jumping BACKWARDS on the number line.

$15 - 6 = \underline{\quad}$



$20 - 8 = \underline{\quad}$



Part A: Quick Check

1. Is 27 odd or even? _____ How do you know? _____
2. Draw an array with 4 rows and 5 columns. Write the repeated addition.
Array: _____ + _____ + _____ + _____ = _____
3. A marker is 15 cm. A pencil is 19 cm. How much longer is the pencil? _____
4. odd + even = odd / even (circle one). Example: _____

Part B: Challenge Problem

A farmer plants seeds in an array with 5 rows and 6 seeds in each row.
Then she plants 3 more rows with 6 seeds each.

- a) How many seeds in the first array? _____
- b) How many seeds in the second planting? _____
- c) How many seeds altogether? _____
- d) Is the total odd or even? _____

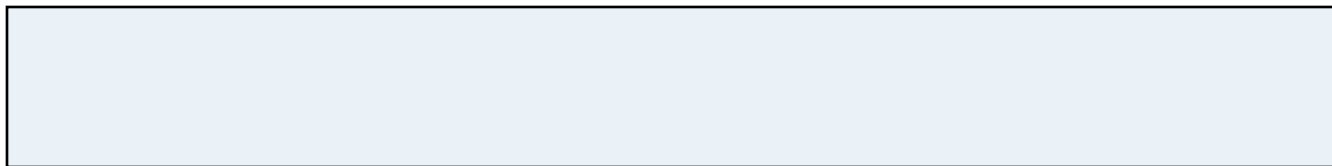
Show your work:

Part A: Vocabulary Match

1. Array a) A number that can be split into two equal groups
2. Odd number b) Objects arranged in rows and columns
3. Even number c) A number with one left over when paired
4. Estimate d) A tool for measuring length
5. Ruler e) A smart guess about a measurement

Part B: Show What You Know

Draw an array to show 4×3 . Write the repeated addition sentence.



Measure a line you draw below in both inches and centimeters:



My line is _____ inches and _____ centimeters long.

My Math Reflection

