3rd Grade Mission 2 Notes

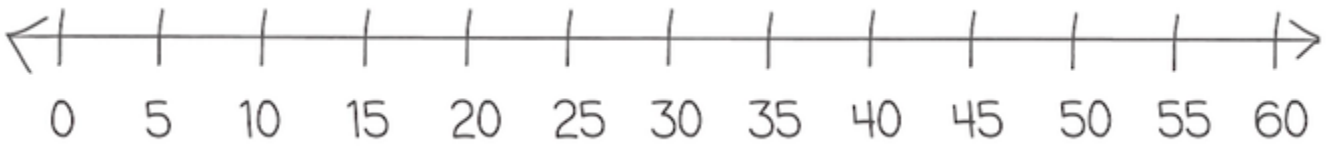
When talking about time, the **fastest time means the smallest number.**

When talking about time, the **slowest time means the largest number**.

How many **seconds or minutes faster/slower**? - means to **subtract** because we are comparing.

Units of Time

Seconds	60 seconds = 1 minute	Jumping jacks, holding your breath
Minutes	60 minutes = 1 hour	Reading a book, playing a game
Hours	24 hours = 1 day	Watching a movie, sleeping



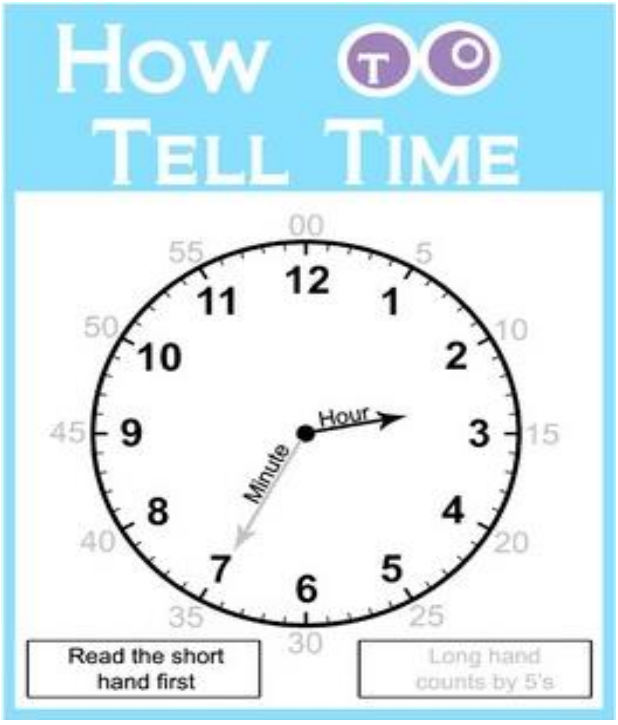
Number line used for time (in minutes)

a.m. – morning

p.m. – afternoon

short hand- tells hour

long hand- tells minutes

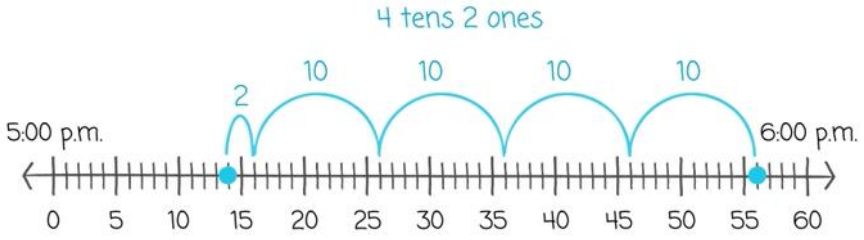


each tick mark between the numbers is 1 minute

3 : 4 7 p.m.
hour minutes

When the minute hand moves, so does the hour. If an hour hand is between two numbers do this trick: Make a hook on the hour hand.

It took Ms. Lawrie 42 minutes to cook dinner last night. She finished cooking at 5:56 p.m. What time did she start?



Ms. Lawrie started cooking at 5:14 p.m.

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1 thousand = 10 hundreds

1 hundred = 10 tens

1 ten = 10 ones

1 kilogram (kg) = 1,000 grams (g)

Use **kilograms** to weigh **heavier** objects.

Use **grams** to weigh **lighter** objects.

1 gram – **lightest** (paperclip)

10 grams (ruler)

100 grams (pack of crayons)

1 kilogram – **heaviest** (brick)

Liter (L) and **milliliters (mL)** are what we use to measure liquids.

Liquid volume is the amount of liquid.

1 Liter (L) = 1,000 milliliters (mL)

1,000 mL ÷ 10 cups = 100 mL

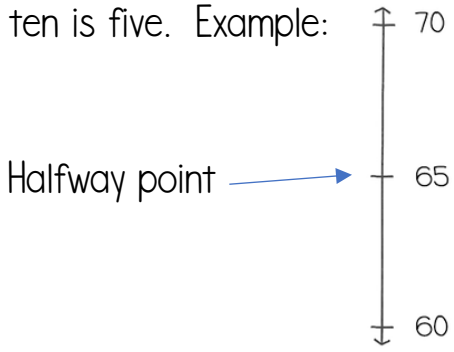
100 mL × 10 = 1000 mL

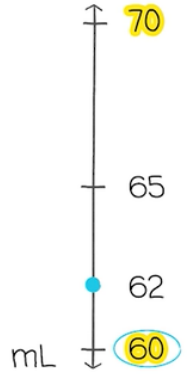
1 mL x 100 = 1,000 mL or 1 L

100 mL x 10 = 1,000 mL or 1 L

Difference in capacities- means to **subtract**

Halfway between ten is five. Example:





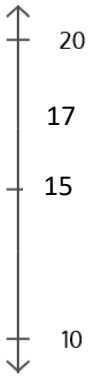
62 mL rounded to the nearest ten is 60 mL
62 mL is about 60 mL

Rounding Steps

- Find your place and box it tight.
- Look at the number to the right.
- 5 or greater, add one more.
- Stay the same for 0 to 4.
- Numbers in front, stay the same.
- Numbers behind, zero's their name.

When trying to find the **endpoints** for a number, think about **what 2 tens the number is between.**

Find the endpoints for the number 17. 17 is closer to 20. So, we would round it to 20.



Halfway point

10 tens = 100

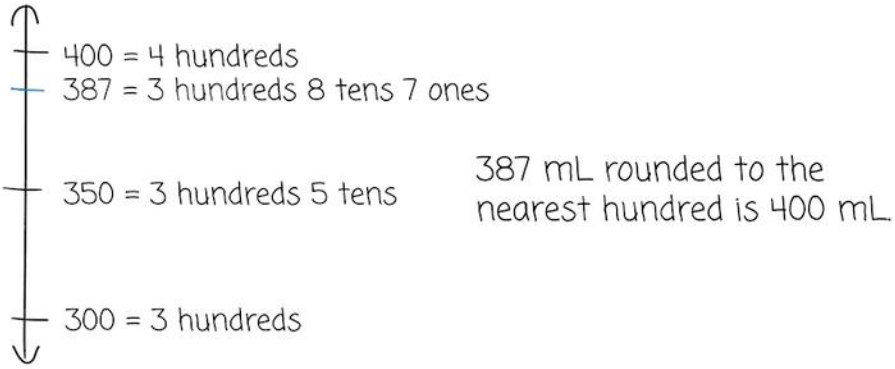
20 tens = 200

21 tens = 210

Round 247 to the nearest ten.

$247 \approx 250$

Rounding symbol



387 mL rounded to the nearest hundred is 400 mL.

Actual sum- means total with original numbers

Estimated sum- means total with rounded numbers

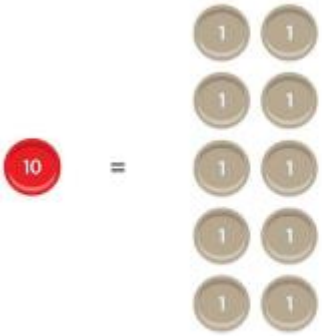
When rounding, be sure to look at what the question/place value it is asking you to round to.

Ethan put 725 milliliters of water in his dog's water bowl in the morning. When Ethan came home from school, 142 milliliters were left in the bowl.

How much water did Ethan's dog drink during the day?

hundreds	tens	ones
○○○○○ ⊘⊘	○○ ○○○○ ⊘⊘⊘⊘	○○○ ⊘⊘
5	8	3

$$\begin{array}{r} {\scriptstyle 6}\ {\scriptstyle 12} \\ \not{7}\ \not{2}\ 5 \\ -\ 1\ 4\ 2 \\ \hline 5\ 8\ 3 \end{array}$$



1 ten = 10 ones

1 hundred = 10 tens

Unbundle a ten to get more ones. Unbundle a hundred to get more tens.

Reasonableness- means does your answer make sense with the problem.