

Adding and Subtracting with Tenths

You *already* know how to add or subtract decimals with tenths. They are just fractions with a denominator of 10.

$$0.1 + 0.5 = 0.6$$

$$8.4 - 2.3 = 6.1$$

Compare these additions that are written with decimals or fractions.

$$\frac{1}{10} + \frac{5}{10} = \frac{6}{10}$$

$$8\frac{4}{10} - 2\frac{3}{10} = 6\frac{1}{10}$$

There is one tricky part though: $0.6 + 0.7$ is **NOT** 0.13 !!

$$0.6 + 0.7 = ? = 1.3$$

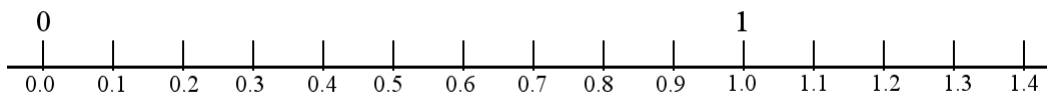
$$1.5 + 0.9 = 2.4$$

To see why, add the fractions. Notice that six tenths and seven tenths makes more than one whole!

$$\frac{6}{10} + \frac{7}{10} = \frac{13}{10} = 1\frac{3}{10}$$

$$1\frac{5}{10} + \frac{9}{10} = 2\frac{4}{10}$$

1. Write an addition *or* subtraction sentence for each “number line jump”.



- a. You're at 0.7, and you jump *five tenths* to the right. _____
- b. You're at 0.6, and you jump *eight tenths* to the right. _____
- c. You're at 1.1, and you jump *eight tenths* to the left. _____
- d. You're at 1.3, and you jump *four tenths* to the left. _____

2. Add and subtract.

a. $0.9 + 0.2 =$	b. $0.5 + 0.7 =$	c. $0.8 + 0.7 =$	d. $1.8 - 0.9 =$
$1.9 + 0.2 =$	$3.5 + 0.7 =$	$0.8 + 2.7 =$	$5.8 - 0.9 =$

3. Add a decimal so the sum is the next whole number.

a.	b.	c.	d.
$2.1 + \underline{\quad} = 3$	$4.5 + \underline{\quad} = \underline{\quad}$	$8.9 + \underline{\quad} = \underline{\quad}$	$5.3 + \underline{\quad} = \underline{\quad}$

4. Find the missing addend.

a.	b.	c.	d.
$\underline{\quad} + 0.5 = 3$	$0.2 + \underline{\quad} = 8$	$0.4 + \underline{\quad} = 1.2$	$0.7 + \underline{\quad} = 1.4$

5. Add and subtract.

a. $2.3 + 0.9 =$ $2.3 + 0.8 =$	b. $1.5 + 0.7 =$ $1.8 + 0.4 =$	c. $2.2 + 3.4 =$ $2.2 + 5.6 =$	d. $4.7 - 0.7 =$ $6.6 - 0.5 =$
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6. Write the numbers.

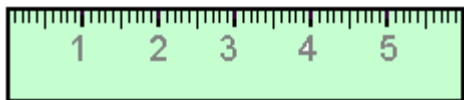
a. 3 tenths, 5 ones b. 7 tens, 8 ones, 4 tenths c. 4 tenths, 3 ones, 6 tens	d. Write the numbers in order. 9 8.9 9.1 9.0 9.9 1.9
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7. Continue the patterns by adding or subtracting the same number repeatedly.

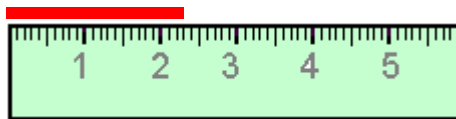
a. 0.1 $+ 0.2 =$ _____ $+ 0.2 =$ _____ $+ 0.2 =$ _____ $+ 0.2 =$ _____ $+ 0.2 =$ _____ $+ 0.2 =$ _____	b. 1.1 $+ 0.5 =$ _____ $+ 0.5 =$ _____ $+ 0.5 =$ _____ $+ 0.5 =$ _____ $+ 0.5 =$ _____ $+ 0.5 =$ _____	c. 2.5 $+ 0.3 =$ _____ $+ 0.3 =$ _____ $+ 0.3 =$ _____ $+ 0.3 =$ _____ $+ 0.3 =$ _____ $+ 0.3 =$ _____	d. 3.6 $- 0.4 =$ _____ $- 0.4 =$ _____ $- 0.4 =$ _____ $- 0.4 =$ _____ $- 0.4 =$ _____ $- 0.4 =$ _____
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8. Remember? 1 millimeter is one-tenth of a centimeter. Or, 1 mm = 0.1 cm.

a. Draw a line that is 4.7 cm long.



b. Measure the line in centimeters. Use a decimal.



9. Convert and add.

a. $0.5 \text{ cm} =$ _____ mm

b. $7 \text{ mm} =$ _____ cm

c. $5 \text{ mm} + 0.9 \text{ cm} =$ _____

$1.2 \text{ cm} =$ _____ mm

$35 \text{ mm} =$ _____ cm

$4 \text{ cm} + 3.4 \text{ cm} =$ _____

10. The two sides of a rectangle measure 6.5 cm and 3.6 cm. Draw the rectangle. What is its perimeter?