



NAME \_\_\_\_\_

DATE \_\_\_\_\_

## RELATE ADDITION AND SUBTRACTION LENGTHS

Concrete to abstract measuring the lengths of string using measurement tools represent length with tape diagrams to represent and compare lengths.

1) Delia's elastic wire.



Elastic wire 'A'



Elastic wire 'B'

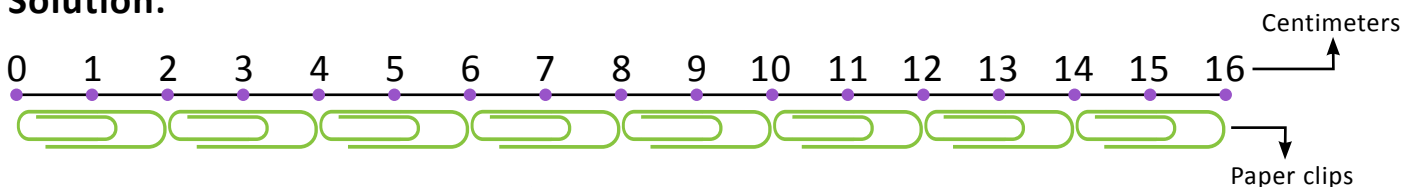
a) Measure the length of elastic wire a with your centimeter ruler and your paper clip write the measurements the lines below.

\_\_\_ centimeters.

\_\_\_ paper clips.

b) Explain why the number of centimeters is larger than the number of paper clips. Use pictures or words.

**Solution:**



Here, 1 paper clip = \_\_\_ centimeters.

8 paper clips distance = \_\_\_ centimeters of distance.

Number of centimeters is larger than the number of paper clips.

c) Estimate the length of elastic wire 'B' in paper clips.

\_\_\_ paper clips.

d) How much longer is elastic wire A than elastic wire B? Give your answer in centimeters.

\_\_\_ centimeters.

e) Delia is using the elastic wire for her clothes. If she use the elastic wire together with no overlaps, how many centimeters of elastic wire does she have altogether.

Delia have the elastic wire altogether for her clothes =  $16 + \underline{\quad} = \underline{\quad}$  cms.

f) If Delia needs 40 centimeters of elastic wire, how much more does she need?

$$28 + \underline{\quad} = 40.$$

By using tap diagram:

28	+ 2		+10	

She needs \_\_\_ centimeters more.