Percent of A Number Commands

Prior Knowledge:

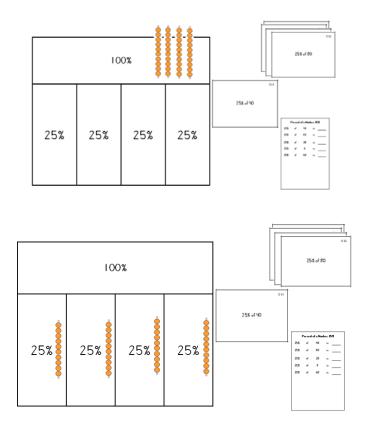
- Child should have prior knowledge of the following before introducing this work:
 - Fractions and Decimals
 - Basic knowledge of what is percent is (a fractional part of a number)

Materials:

- Percent of a Number Commands download available at www.montessoriforlearning.com
- Beads (10 bars and unit beads) at least ten 10 bars and 90 unit beads.
 (printable beads are available at www.montessoriforlearning.com) real golden beads are recommended if available.

Instructions:

- 1. Invite a child to the lesson after they have the prior knowledge as listed above.
- 2. Model the lesson for the child. Show enthusiasm for the work. Many times a child's motivation for the work (whether it is boring or interesting) depends upon how it was modeled for them by the adult.
 - NOTE: although Control cards with answers are available. It is suggested that you record the correct answers to the problems on the back of the command card before laminating for easy reference for the child.
- 3. Set the Percent of A Number Card and command cards on the workspace. The Percent of a Number Card (large cards) should sit in the middle of the workspace and command cards in a pile over to the right (or child's dominant side) of the workspace. Make sure the sets are divided where the command cards are grouped with the correct Number Card (i.e. the 25% command cards are grouped with the 25% large number card) --- or that the child is aware of how to separate the cards so that he/she is using the correct Large percent card with the correct command cards.
- 4. Set the golden beads to the side of the workspace.
- 5. The child chooses a command card (in this example, the child chose 25% of 40.
- 6. Model aloud "25% of 40... so I need to take 40 beads and place it on my workspace."
- 7. The child will place the amount of golden beads as displayed on the card (i.e. 40 beads) in the top row of the card as shown below.
- 8. After the golden beads are placed on the workspace, re-read the card "25% of 40...this is what 100% of 40 looks like (40) I will divide 40 into equal groups so that I can see what 25% of 40 looks like...."
- 9. After dividing the amount, model thinking aloud..."hmmm.... 100% of 40 was 40.... but when I divide 40 into these equal groups, I see 25% of 40 is 10."
- 10. Check control card (or back of card if you chose to record answer on back of card) to check accuracy.



10. For beginning learners, you do not have to use the recording sheets. For more experienced learners, show them how to record their answers. (check control card or back of command cards-if you recorded the correct answers on the command cards to confirm accuracy)

C1	C2
50% of 100	50% of 10
C3	C4
50% of 80	50% of 50
C5	C6
50% of 20	50% of 60
C7	C8
20% of 100	20% of 10

C9	C10
20% of 50	25% of 100
C11	C12
25% of 40	25% of 80
C13	C14
25% of 20	25% of 8
C15	C16
25% of 60	10% of 100

C17	C18
10% of 70	10% of 50
C19	C20
10% of 40	10% of 10
C21	C22
10% of 30	10% of 90
C23	C24
10% Of 20	10% of 60

IC	0%
50%	50%

100%				
25%	25%	25%	25%	

100%					
20%	20%	20%	20%	20%	

100%									
10%	10%	10%	10%	10%	10%	10%	10%	10%	10%

Control Card: Percent of a Number Commands

CI	50% of 100	=	50
C2	50% of 10	=	5
C3	50% of 80	=	40
C4	50% of 50	=	25
C5	50% of 20	=	10
C6	50% of 60	=	30
C7	20% of 100	=	20
C8	20% of 10	=	2
C9	20% of 50	=	10
CIO	25% of 100	=	25
CII	25% of 40	=	10
C12	25% of 80	=	20
CI3	25% of 20	=	5
C14	25% of 8	=	2
C15	25% of 60	=	15
C16	10% of 100	=	10
CI7	10% of 70	=	7
CI8	10% of 50	=	5
CI9	10% of 40	=	4
C20	10% of 10	=	I
C21	10% of 30	=	3
C22	10% of 90	=	9
C23	10% Of 20	=	2
C24	10% of 60	=	6

Percent of a Number: 50%						
50	%	of	100	is		
50	%	of	10	is		
50	%	of	80	is		
50	%	of	50	is		
50	%	of	20	is		
50	%	of	60	is		

Percent of a Number: 20%					
20%	of	100	is		
20%	of	10	is		
20%	of	50	is		

Percent of a Number: 25%						

Percent of a Number: 10%						
10%	of	100	is			
50%	of	70	is			
50%	of	50	is			
50%	of	40	is			
50%	of	10	is			
50%	of	30	is			
50%	of	90	is			
50%	of	20	is			
50%	of	60	is			

Percent of a Number: 50%								
50%	of	100	is	50				
50%	of	10	is	5				
50%	of	80	is	40				
50%	of	50	is	25				
50%	of	20	is	10				
50%	of	60	is	30				

Percent of a Number: 20% 20% of 100 is 20 20% of 10 2 is 20% of 50 10 is

Percent of a Number: 25%							
25%	of	100	is	25			
25%	of	40	is	10			
25%	of	80	is	20			
25%	of	20	is	5			
25%	of	8	is	2			
25%	of	60	is	<u> 15</u>			

Percent of a Number: 10%							
10%	of	100	is	10			
50%	of	70	is	35			
50%	of	50	is	25			
50%	of	40	IS	20			
50%	of	10	is	5			
50%	of	30	is	<u> 15</u>			
50%	of	90	is	<u>45</u>			
50%	of	20	is	10			
50%	of	60	is	30			