A

Correct _____

	Circle the long	er lenath.		
1 (1 cm	0 cm	23 (110 cm 101 cm
2 (11 cm	10 cm	24 (110 cm 1 m
3	11 cm	12 cm	25	1 m (111 cm)
4	22 cm	12 cm	26 ^{<}	101 cm 1 m
5	29 cm	(30 cm	27 (111 cm 101 cm
6 (31 cm	13 cm	28<	112 cm 102 cm
7 (43 cm	33 cm	29	110 cm 115 cm
8 (33 cm	23 cm	30	115 cm 105 cm
9	35 cm	(53 cm)	31	106 cm (116 cm)
10 (50 cm	35 cm	32 (108 cm 98 cm
11(55 cm	45 cm	33	119 cm 99 cm
12	50 cm	(55 cm)	34	131 cm 133 cm
13	65 cm	56 cm	<i>35</i> «	133 cm 113 cm
14(66 cm	56 cm	36 (142 cm 124 cm
15	66 cm	(86 cm)	37(144 cm 114 cm
16(86 cm	68 m	38 (154 cm 145 cm
17	68 cm	(88 cm)	39(155 cm 152 cm
18	89 cm	(98 cm)	40	198 cm 199 cm
19 (99 cm)	9 <u>8 m</u>	41	215 cm (225 cm)
20	99 cm	(1 m)	42	252 cm 255 cm
21	1 m	(101 cm)	43	2 m 295 cm
22 (1 m	90 cm	44(3 m 295 cm

Lesson 6: Date:

Measure and compare lengths using centimeters and meters. 6/26/13

engage^{ny}

В	Improvemen	t # Correct		
	Circle the longer length.			
1	0 cm (1 cm)	23 (111 cm 101 cm	
2	10 cm (12 cm)	24	101 cm (110 cm)	
3 (12 cm 11 cm	25	1 m (110 cm	
4	32 cm 13 cm	26	111 cm 1 m	
5	39 cm 40 cm	27	113 cm (117 cm)	
6 (41 cm 14 cm	28 (112 cm 111 cm	
7 (44 cm 40 cm	29	115 cm 105 cm	
8	44 cm 54 cm	30	106 cm (116 cm)	
9	55 cm (65 cm)	31	107 cm (117 cm)	
10(<u>60 cm</u> 59 cm	32(118 cm 108 cm	
11(65 cm 45 cm	33	119 cm (120 cm)	
12 (70 cm 65 cm	34 (132 cm 123 cm	
13	75 cm 57 cm	35(133 cm 132 cm	
14	77 cm 76 cm	36 (143 cm 134 cm	
15(87 cm 78 cm	37 (144 cm 114 cm	
16	79 cm <u>97 m</u>	38	154 cm 145 cm	
17	79 cm (88 cm)	39 (155 cm 152 cm	
18 (98 cm 97 cm	40	195 cm 199 cm	
19	99 cm (1 m)	41	225 cm 152 cm	
20	99 cm 100 cm	42	252 cm 255 cm	
21	101 cm 100 cm	43	2 m 295 cm	
22	1 m (101 cm)	44(3 m 295 cm	

N	ame Date
	easure each set of lines in centimeters write the length on the line. Complete the imparison sentence.
1.	Line A
	Line B
	Line A measured about 15cm . Line B measured about 5cm .
	Line A is about 10 cm longer than Line B.
2.	Line C
	Line D
	Line C measured about $\frac{9}{2}$ cm. Line D measured about $\frac{8}{2}$ cm.
	Line C is about cm shorter than Line D.
3.	Line E
	Line F
	Line G
	Line E measured about cm. Line F measured about cm.
	Line G measured about \underline{S} cm. Lines E, F, and G are about \underline{S} cm combined.
	Line E is about 3 cm shorter than Line F.

Line E is about \angle cm shorter than Line G. Line G is about $_$ cm longer than Line F. Line F doubled is about ______cm longer than Line G.

4. Daniel measured the heights of some young trees in the orchard. He is trying to find out how many more centimeters are needed to have a height of 1 meter?

90 cm +
$$10$$
 cm = 1 m
80 cm + 20 cm = 1 m
85 cm + 15 cm = 1 m
81 cm + 19 cm = 1m

5. Carol's ribbon is 76 centimeters long. Alice's ribbon is 1 meter long. How much longer is Alice's ribbon than Carol's?

6. The cricket hopped a distance of 52 centimeters. The grasshopper hopped 19 centimeters farther than the cricket. How far did the grasshopper jump?

7. The pencil box is 24 centimeters in length and 12 centimeters wide. How many more centimeters is the length than the width? _____ more cm.

Draw the rectangle and label the sides.

What is the total length of all four sides? ____ cm.

Name Date

1. Measure the length of each line and compare.

Line M Fixed

5cm Line N
Line O

Line M is about 3 cm longer than Line O. 12-9=3

Line N is about $\frac{1}{2}$ cm shorter than Line M. 12-5=7

Line N doubled would be about $\frac{2}{2}$ cm (longer/shorter) than Line M. 5 + 5 = 10

12-10=2

Name	Date
Compare the lengths and complete each sentence.	
1.	Line A
Line A is about cm longer than line B.	Line B
Line A and B are about 24 cm combined.	Fixed A+B
2.	Line X Line Y
Line X measured about cm.	Line Z
Line Y measured about cm.	×. Y. Z
Line Z measured about <u>5</u> cm.	, ,
Lines X, Y, and Z are about 22 cm combined.	8+9+5=
Line Z is about 3 cm shorter than Line X.	8-5=
Line X is aboutcm shorter than Line Y.	9-8=1
Line Y is about $ \bot $ cm longer than Line Z.	9-5=
Line X doubled is aboutcm longer than line	e y. 8+8=16
	16-9=7

3.	Line	J	is	60	cm	long.
----	------	---	----	----	----	-------

Line K is 85 cm long.

Line L is 1 m long.

Line J is 25 cm shorter than line K.

Line L is 15 cm longer than line K.

Line J doubled is 20cm more than line L.

120> 100

Lines J, K, and L combined are ____ cm.

60 +85 + 100

4. Katie measured the seat height of four different chairs in her house.

Here are her results:

Loveseat height: 51 cm

Dining room chair height: 55 cm

Bar stool height: 97 cm

Counter stool height: 65 cm

- a. How much shorter is the dining chair than the counter stool? 10 cm
- b. How much taller is the bar stool than the loveseat? 46cm
- c. What is the difference between the height of tallest chair and the height of the shortest chair? 46cm
- d. How much taller is a meter stick than the counter stool? $\underline{35}$ cm
- e. How much taller is a meter stick than the loveseat? $\frac{49}{5}$ cm

- 5. Max ran 15 meters this morning. This afternoon he ran 48 meters.
 - a. How many more meters did he run in the afternoon?

$$48 - 15 = 33m$$

b. How many meters did Max run in all?

6. The length of the tabletop is 2 meters long. If the tablecloth on the table is 256 centimeters, how much longer is the tablecloth than the tabletop?

Correct _____

	Subtract.				
1	3 - 1 =	2	23	8 - 7 =	1
2	13 - 1 =	12	24	18 - 7 =	1
3	23 - 1 =	22	25	58 - 7 =	51
4	53 - 1 =	52	26	62 - 2 =	60
5	4 - 2 =	2	27	9 - 8 =	1
6	14 - 2 =	12	28	19 - 8 =	11
7	24 - 2 =	22	29	29 - 8 =	21
8	64 - 2 =	62	30	69 - 8 =	le l
9	4 - 3 =	1	31	7 - 3 =	4
10	14 - 3 =	1 1	32	17 - 3 =	14
11	24 - 3 =	21	33	77 - 3 =	74
12	74 - 3 =	71	34	59 - 9 =	50
13	6 - 4 =	2	35	9 - 7 =	2
14	16 - 4 =	12	36	19 - 7 =	12
15	26 - 4 =	22	37	89 - 7 =	82
16	96 - 4 =	92	38	99 - 5 =	94
17	7 - 5 =	2	39	78 - 6 =	72
18	17 - 5 =	12	40	58 - 5 =	53
19	27 - 5 =	22	41	39 - 7 =	32
20	47 - 5 =	42	42	28 - 6 =	22
21	43 - 3 =	40	43	49 - 4 =	45
22	87 - 7 =	80	44	67 - 4 =	63

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Lesson 7: Date:

Measure and compare lengths using standard metric length units and non-standard lengths units; relate measurement to unit size. 6/26/13

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2.C.20

В	Subtract.	Improve	emei	nt	# Correct
1	2 - 1 =		23	8 - 7 =	
2	12 - 1 =	11	24	18 - 7 =	1
3	22 - 1 =	21	25	68 - 7 =	61
4	52 - 1 =	51	26	32 - 2 =	30
5	5 - 2 =	3	27	9 - 8 =	1
6	15 - 2 =	13	28	19 - 8 =	11
7	25 - 2 =	23	29	29 - 8 =	21
8	65 - 2 =	Le3	30	79 - 8 =	71
9	4 - 3 =		31	8 - 4 =	4
10	14 - 3 =	1 (32	18 - 4 =	14
11	24 - 3 =	21	33	78 - 4 =	74
12	84 - 3 =	81	34	89 - 9 =	80
13	7 - 4 =	3	35	9 - 7 =	Q
14	17 - 4 =	13	36	19 - 7 =	12
15	27 - 4 =	23	37	79 - 7 =	72
16	97 - 4 =	93	38	89 - 5 =	84
17	6 - 5 =	11	39	68 - 6 =	62
18	16 - 5 =	11	40	48 - 5 =	43
19	26 - 5 =	21	41	29 - 7 =	22
20	46 - 5 =	Lad 1	42	38 - 6 =	3 8
21	23 - 3 =	20	43	59 - 4 =	<i>55</i>
22	67 - 7 =	60	44	77 - 4 =	73

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Lesson 7: Date:

Measure and compare lengths using standard metric length units and non-standard lengths units; relate measurement to unit size. 6/26/13



2.C.21

No	ame Date
	easure each set of lines with one small paper clip, using mark and move forward. easure each set of lines in centimeters using a ruler.
1.	Line A Fixed
	Line B
	Line A is 3 paper clips. Line A is 8 cm long.
	Line B is 2 paper clips. Line B is 6 cm long.
	Line B is paper clips shorter than Line A.
	Line A is $\underline{\mathcal{A}}$ cm longer than Line B.
2.	Line L
	Line M Filed
	Line L is 3 paper clips. Line L is 9 cm long.
	Line M is 2 paper clips. Line M is 5 cm long.
	Line L is paper clip(s)longer than Line M.
	Line M doubled is cm longer than Line L. $\frac{5+5=10}{10-9=1}$
3.	Draw a line that is 16 cm long and another line below it that is 11 cm long. Label the 16-cm line R and the 11-cm line S.
	1 le cm
	Line R measured \underline{S} paper clips. Line S measured $\underline{\hspace{0.1cm}}$ paper clips.

4. Draw a line that is 8 cm long and another line below it that is 20 cm long.

Label the 8-cm line C and the 20-cm line D.

8 CM

20cm

Line C is $\frac{3}{2}$ paper clips long.

Line D is ______ paper clips long.

Line D is $\frac{1}{2}$ cm longer than Line C.

Line C is $\frac{3}{2}$ paper clips shorter than Line D.

Lines C and D are 15 paper clips long.

Lines C and D are $\frac{20}{3}$ centimeters long.

5. Christina measured line F with quarters and line G with pennies.



Line G



Line F measured the length of about 6 quarters.

Line G measured the length of about 8 pennies.

Christina said line G is longer because 8 is a bigger number than 6.

Explain why Christina is incorrect.

No	lame Date
M	leasure the lines with small paper clips and answer the questions below.
زيلى	Line 1
(>	Line 2
>>	Line 2
	Line 1 is paper clips. Line 1 is cm long.
	Line 2 is 2 paper clips. Line 2 is 6 cm long.
	Line 3 is 3 paper clips. Line 3 is 3 cm long.
	Explain why each line had more centimeters than paper clips.
	The paperdip is longer than Icm

4.	Line X is 1 meter. Line Y is 89 centimeters. Line X is 100 centimeters.
	Which line is longer? Line X Line Y How much longer? \ cm
	100-89
5.	Line P is 2 meters. Line Q is 300 centimeters.
	Line P is _200 centimeters.
	Line Q is meters.
	Which line is longer? Line P Line Q
	How much longer? In or 100cm
6.	Jordan measured the length of a line with large paper clips. His friend measured the length of the same line with small paper clips.
	(C)(C)(C) Jordan
	Corcor (Crop Friend
	About how many paper clips did Jordan use? large paper clips.
	About Now Maily paper emps and derivatives.
	About how many small paper clips did his friend use? small paper clips.
	Why did Jordan's friend need more paper clips to measure the same line as Jordan?
	Jordan's friend needed more paper
	Clips because his are shorter than
	Tordan's.

No	ame Date
Us	se a centimeter ruler and paper clips to measure and compare lengths.
1.	Line Z
	Line Z is 3 paper clips. Line Z is 9 cm long.
	Line Z doubled would measure paper clips or cm.
2.	Line A
	Line B
	Line A is 3 paper clips. Line A is 9 cm long.
	Line B is 2 paper clips. Line B is 7 cm long.
	Line A is paper clip(s)longer than Line B.
	Line B doubled is $\frac{5}{5}$ cm longer than Line A. $\frac{7+7=14}{14-9=5}$
3.	Draw a line that is 8 cm and another line below it that is 12 cm.
	Label the 8-cm line F and the 12-cm line G.
	Line F is 3 paper clips long.
	Line G is paper clips long.
	Line G is $\frac{4}{12}$ cm longer than Line F. $12-8=4$
	Line F is paper clip(s)shorter than Line G.
	Lines F and G are $\frac{1}{2}$ paper clips long. $3+4=7$
	Lines F and G are 20 centimeters long. $12+8=20$

