A Story of Units®

Eureka Math™

Grade 2, Module 2

Student File_B

Contains Sprint and Fluency, Exit Ticket, and Assessment Materials

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10 9 8 7 6 5 4 3 2 1

Sprint and Fluency Packet

A

Number Correct: _____

Before, Between, After

1.	1, 2, ___	
2.	11, 12, ___	
3.	21, 22, ___	
4.	71, 72, ___	
5.	3, 4, ___	
6.	3, ___, 5	
7.	13, ___, 15	
8.	23, ___, 25	
9.	83, ___, 85	
10.	7, 8, ___	
11.	7, ___, 9	
12.	___, 8, 9	
13.	___, 18, 19	
14.	___, 28, 29	
15.	___, 58, 59	
16.	12, 13, ___	
17.	45, 46, ___	
18.	12, ___, 14	
19.	36, ___, 38	
20.	___, 19, 20	
21.	___, 89, 90	
22.	98, 99, ___	

23.	99, ___, 101	
24.	19, 20, ___	
25.	119, 120, ___	
26.	35, ___, 37	
27.	135, ___, 137	
28.	___, 24, 25	
29.	___, 124, 125	
30.	142, 143, ___	
31.	138, ___, 140	
32.	___, 149, 150	
33.	148, ___, 150	
34.	___, 149, 150	
35.	___, 163, 164	
36.	187, ___, 189	
37.	___, 170, 171	
38.	178, 179, ___	
39.	192, ___, 194	
40.	___, 190, 191	
41.	197, ___, 199	
42.	168, 169, ___	
43.	199, ___, 201	
44.	___, 160, 161	

B

Number Correct: _____

Improvement: _____

Before, Between, After

1.	0, 1, ___	
2.	10, 11, ___	
3.	20, 21, ___	
4.	70, 71, ___	
5.	2, 3, ___	
6.	2, ___, 4	
7.	12, ___, 14	
8.	22, ___ 24	
9.	82, ___, 84	
10.	6, 7, ___	
11.	6, ___, 8	
12.	___, 7, 8	
13.	___, 17, 18	
14.	___, 27, 28	
15.	___, 57, 58	
16.	11, 12, ___	
17.	44, 45, ___	
18.	11, ___, 13	
19.	35, ___, 37	
20.	___, 19, 20	
21.	___, 79, 80	
22.	98, 99, ___	
23.	99, ___, 101	
24.	29, 30, ___	
25.	129, 130, ___	
26.	34, ___, 36	
27.	134, ___, 136	
28.	___, 23, 24	
29.	___, 123, 124	
30.	141, 142, ___	
31.	128, ___, 130	
32.	___, 149, 150	
33.	148, ___, 150	
34.	___, 149, 150	
35.	___, 173, 174	
36.	167, ___, 169	
37.	___, 160, 161	
38.	188, 189, ___	
39.	193, ___, 195	
40.	___, 170, 171	
41.	196, ___, 198	
42.	178, 179, ___	
43.	199, ___, 201	
44.	___, 180, 181	

A

Number Correct: _____

Making Ten

1.	0 + ____ = 10	
2.	9 + ____ = 10	
3.	8 + ____ = 10	
4.	7 + ____ = 10	
5.	6 + ____ = 10	
6.	5 + ____ = 10	
7.	1 + ____ = 10	
8.	2 + ____ = 10	
9.	3 + ____ = 10	
10.	4 + ____ = 10	
11.	10 + ____ = 10	
12.	9 + ____ = 10	
13.	19 + ____ = 20	
14.	5 + ____ = 10	
15.	15 + ____ = 20	
16.	8 + ____ = 10	
17.	18 + ____ = 20	
18.	6 + ____ = 10	
19.	16 + ____ = 20	
20.	7 + ____ = 10	
21.	17 + ____ = 20	
22.	3 + ____ = 10	

23.	13 + ____ = 20	
24.	23 + ____ = 30	
25.	27 + ____ = 30	
26.	5 + ____ = 10	
27.	25 + ____ = 30	
28.	2 + ____ = 10	
29.	22 + ____ = 30	
30.	32 + ____ = 40	
31.	1 + ____ = 10	
32.	11 + ____ = 20	
33.	21 + ____ = 30	
34.	31 + ____ = 40	
35.	38 + ____ = 40	
36.	36 + ____ = 40	
37.	39 + ____ = 40	
38.	35 + ____ = 40	
39.	____ + 6 = 30	
40.	____ + 8 = 20	
41.	____ + 7 = 40	
42.	____ + 6 = 20	
43.	____ + 4 = 30	
44.	____ + 8 = 40	

B

Number Correct: _____

Improvement: _____

Making Ten

1.	10 + ____ = 10	
2.	9 + ____ = 10	
3.	8 + ____ = 10	
4.	7 + ____ = 10	
5.	6 + ____ = 10	
6.	5 + ____ = 10	
7.	1 + ____ = 10	
8.	2 + ____ = 10	
9.	3 + ____ = 10	
10.	4 + ____ = 10	
11.	0 + ____ = 10	
12.	5 + ____ = 10	
13.	15 + ____ = 20	
14.	9 + ____ = 10	
15.	19 + ____ = 20	
16.	8 + ____ = 10	
17.	18 + ____ = 20	
18.	7 + ____ = 10	
19.	17 + ____ = 20	
20.	6 + ____ = 10	
21.	16 + ____ = 20	
22.	4 + ____ = 10	
23.	14 +____ = 20	
24.	24 + ____ = 30	
25.	26 + ____ = 30	
26.	9 + ____ = 10	
27.	29 + ____ = 30	
28.	3 + ____ = 10	
29.	23 + ____ = 30	
30.	33 + ____ = 40	
31.	2 + ____ = 10	
32.	12 + ____ = 20	
33.	22 + ____ = 30	
34.	32 + ____ = 40	
35.	37 + ____ = 40	
36.	34 + ____ = 40	
37.	35 + ____ = 40	
38.	39 + ____ = 40	
39.	____ + 4 = 30	
40.	____ + 9 = 20	
41.	____ + 4 = 40	
42.	____ + 7 = 20	
43.	____ + 3 = 30	
44.	____ + 9 = 40	

A

Number Correct: _____

Related Facts

1.	8 + 3 =	
2.	3 + 8 =	
3.	11 – 3 =	
4.	11 – 8 =	
5.	7 + 4 =	
6.	4 + 7 =	
7.	11 – 4 =	
8.	11 – 7 =	
9.	9 + 3 =	
10.	3 + 9 =	
11.	12 – 3 =	
12.	12 – 9 =	
13.	8 + 5 =	
14.	5 + 8 =	
15.	13 – 5 =	
16.	13 – 8 =	
17.	7 + 5 =	
18.	5 + 7 =	
19.	12 – 5 =	
20.	12 – 7 =	
21.	9 + 6 =	
22.	6 + 9 =	

23.	15 – 6 =	
24.	15 – 9 =	
25.	8 + 7 =	
26.	7 + 8 =	
27.	15 – 7 =	
28.	15 – 8 =	
29.	9 + 4 =	
30.	4 + 9 =	
31.	13 – 4 =	
32.	13 – 9 =	
33.	8 + 6 =	
34.	6 + 8 =	
35.	14 – 6 =	
36.	14 – 8 =	
37.	7 + 6 =	
38.	6 + 7 =	
39.	13 – 6 =	
40.	13 – 7 =	
41.	9 + 7 =	
42.	7 + 9 =	
43.	16 – 7 =	
44.	16 – 9 =	

B

Number Correct: _____

Improvement: _____

Related Facts

1.	9 + 2 =	
2.	2 + 9 =	
3.	11 – 2 =	
4.	11 – 9 =	
5.	6 + 5 =	
6.	5 + 6 =	
7.	11 – 5 =	
8.	11 – 6 =	
9.	8 + 4 =	
10.	4 + 8 =	
11.	12 – 4 =	
12.	12 – 8 =	
13.	7 + 6 =	
14.	6 + 7 =	
15.	13 – 6 =	
16.	13 – 7 =	
17.	9 + 3 =	
18.	3 + 9 =	
19.	12 – 3 =	
20.	12 – 9 =	
21.	8 + 7 =	
22.	7 + 8 =	
23.	15 – 7 =	
24.	15 – 8 =	
25.	9 + 6 =	
26.	6 + 9 =	
27.	15 – 6 =	
28.	15 – 9 =	
29.	7 + 5 =	
30.	5 + 7 =	
31.	12 – 5 =	
32.	12 – 7 =	
33.	9 + 5 =	
34.	5 + 9 =	
35.	14 – 5 =	
36.	14 – 9 =	
37.	8 + 6 =	
38.	6 + 8 =	
39.	14 – 6 =	
40.	14 – 8 =	
41.	9 + 8 =	
42.	8 + 9 =	
43.	17 – 8 =	
44.	17 – 9 =	

A

Number Correct: _____

Circle the longer length.

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

B

Number Correct: _____

Improvement: _____

Circle the longer length.

1.	0 cm	1 cm
2.	10 cm	12 cm
3.	12 cm	11 cm
4.	32 cm	13 cm
5.	39 cm	40 cm
6.	41 cm	14 cm
7.	44 cm	40 cm
8.	44 cm	54 cm
9.	55 cm	65 cm
10.	60 cm	59 cm
11.	65 cm	45 cm
12.	70 cm	65 cm
13.	75 cm	57 cm
14.	77 cm	76 cm
15.	87 cm	78 cm
16.	79 cm	97 m
17.	79 cm	88 cm
18.	98 cm	97 cm
19.	99 cm	1 m
20.	99 cm	100 cm
21.	101 cm	100 cm
22.	1 m	101 cm

23.	111 cm	101 cm
24.	101 cm	110 cm
25.	1 m	110 cm
26.	111 cm	1 m
27.	113 cm	117 cm
28.	112 cm	111 cm
29.	115 cm	105 cm
30.	106 cm	116 cm
31.	107 cm	117 cm
32.	118 cm	108 cm
33.	119 cm	120 cm
34.	132 cm	123 cm
35.	133 cm	132 cm
36.	143 cm	134 cm
37.	144 cm	114 cm
38.	154 cm	145 cm
39.	155 cm	152 cm
40.	195 cm	199 cm
41.	225 cm	152 cm
42.	252 cm	255 cm
43.	2 m	295 cm
44.	3 m	295 cm

A

Number Correct: _____

Subtraction

1.	3 – 1 =	
2.	13 – 1 =	
3.	23 – 1 =	
4.	53 – 1 =	
5.	4 – 2 =	
6.	14 – 2 =	
7.	24 – 2 =	
8.	64 – 2 =	
9.	4 – 3 =	
10.	14 – 3 =	
11.	24 – 3 =	
12.	74 – 3 =	
13.	6 – 4 =	
14.	16 – 4 =	
15.	26 – 4 =	
16.	96 – 4 =	
17.	7 – 5 =	
18.	17 – 5 =	
19.	27 – 5 =	
20.	47 – 5 =	
21.	43 – 3 =	
22.	87 – 7 =	

23.	8 – 7 =	
24.	18 – 7 =	
25.	58 – 7 =	
26.	62 – 2 =	
27.	9 – 8 =	
28.	19 – 8 =	
29.	29 – 8 =	
30.	69 – 8 =	
31.	7 – 3 =	
32.	17 – 3 =	
33.	77 – 3 =	
34.	59 – 9 =	
35.	9 – 7 =	
36.	19 – 7 =	
37.	89 – 7 =	
38.	99 – 5 =	
39.	78 – 6 =	
40.	58 – 5 =	
41.	39 – 7 =	
42.	28 – 6 =	
43.	49 – 4 =	
44.	67 – 4 =	

B

Number Correct: _____

Improvement: _____

Subtraction

1.	2 – 1 =	
2.	12 – 1 =	
3.	22 – 1 =	
4.	52 – 1 =	
5.	5 – 2 =	
6.	15 – 2 =	
7.	25 – 2 =	
8.	65 – 2 =	
9.	4 – 3 =	
10.	14 – 3 =	
11.	24 – 3 =	
12.	84 – 3 =	
13.	7 – 4 =	
14.	17 – 4 =	
15.	27 – 4 =	
16.	97 – 4 =	
17.	6 – 5 =	
18.	16 – 5 =	
19.	26 – 5 =	
20.	46 – 5 =	
21.	23 – 3 =	
22.	67 – 7 =	

23.	8 – 7 =	
24.	18 – 7 =	
25.	68 – 7 =	
26.	32 – 2 =	
27.	9 – 8 =	
28.	19 – 8 =	
29.	29 – 8 =	
30.	79 – 8 =	
31.	8 – 4 =	
32.	18 – 4 =	
33.	78 – 4 =	
34.	89 – 9 =	
35.	9 – 7 =	
36.	19 – 7 =	
37.	79 – 7 =	
38.	89 – 5 =	
39.	68 – 6 =	
40.	48 – 5 =	
41.	29 – 7 =	
42.	38 – 6 =	
43.	59 – 4 =	
44.	77 – 4 =	

A

Number Correct: _____

Making a Meter

1.	10 cm + ____ = 100 cm	
2.	30 cm + ____ = 100 cm	
3.	50 cm + ____ = 100 cm	
4.	70 cm + ____ = 100 cm	
5.	90 cm + ____ = 100 cm	
6.	80 cm + ____ = 100 cm	
7.	60 cm + ____ = 100 cm	
8.	40 cm + ____ = 100 cm	
9.	20 cm + ____ = 100 cm	
10.	21 cm + ____ = 100 cm	
11.	23 cm + ____ = 100 cm	
12.	25 cm + ____ = 100 cm	
13.	27 cm + ____ = 100 cm	
14.	37 cm + ____ = 100 cm	
15.	38 cm + ____ = 100 cm	
16.	39 cm + ____ = 100 cm	
17.	49 cm + ____ = 100 cm	
18.	50 cm + ____ = 100 cm	
19.	52 cm + ____ = 100 cm	
20.	56 cm + ____ = 100 cm	
21.	58 cm + ____ = 100 cm	
22.	62 cm + ____ = 100 cm	

23.	____ + 62 cm = 1 m	
24.	____ + 72 cm = 1 m	
25.	____ + 92 cm = 1 m	
26.	____ + 29 cm = 1 m	
27.	____ + 39 cm = 1 m	
28.	____ + 59 cm = 1 m	
29.	____ + 89 cm = 1 m	
30.	____ + 88 cm = 1 m	
31.	____ + 68 cm = 1 m	
32.	____ + 18 cm = 1 m	
33.	____ + 15 cm = 1 m	
34.	____ + 55 cm = 1 m	
35.	44 cm + ____ = 1 m	
36.	55 cm + ____ = 1 m	
37.	88 cm + ____ = 1 m	
38.	1 m = ____ + 33 cm	
39.	1 m = ____ + 66 cm	
40.	1 m = ____ + 99 cm	
41.	1 m – 11 cm = ____	
42.	1 m – 15 cm = ____	
43.	1 m – 17 cm = ____	
44.	1 m – 19 cm = ____	

B

Number Correct: _____

Improvement: _____

Making a Meter

1.	1 cm + ____ = 100 cm	
2.	10 cm + ____ = 100 cm	
3.	20 cm + ____ = 100 cm	
4.	40 cm + ____ = 100 cm	
5.	60 cm + ____ = 100 cm	
6.	80 cm + ____ = 100 cm	
7.	90 cm + ____ = 100 cm	
8.	70 cm + ____ = 100 cm	
9.	50 cm + ____ = 100 cm	
10.	30 cm + ____ = 100 cm	
11.	31 cm + ____ = 100 cm	
12.	33 cm + ____ = 100 cm	
13.	35 cm + ____ = 100 cm	
14.	37 cm + ____ = 100 cm	
15.	39 cm + ____ = 100 cm	
16.	49 cm + ____ = 100 cm	
17.	59 cm + ____ = 100 cm	
18.	60 cm + ____ = 100 cm	
19.	62 cm + ____ = 100 cm	
20.	66 cm + ____ = 100 cm	
21.	68 cm + ____ = 100 cm	
22.	72 cm + ____ = 100 cm	

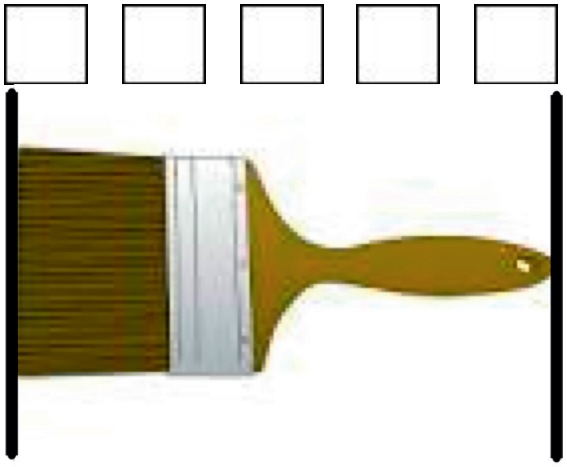
23.	____ + 72 cm = 1 m	
24.	____ + 82 cm = 1 m	
25.	____ + 28 cm = 1 m	
26.	____ + 38 cm = 1 m	
27.	____ + 48 cm = 1 m	
28.	____ + 45 cm = 1 m	
29.	____ + 43 cm = 1 m	
30.	____ + 34 cm = 1 m	
31.	____ + 24 cm = 1 m	
32.	____ + 14 cm = 1 m	
33.	____ + 12 cm = 1 m	
34.	____ + 10 cm = 1 m	
35.	11 cm + ____ = 1 m	
36.	33 cm + ____ = 1 m	
37.	55 cm + ____ = 1 m	
38.	1 m = ____ + 22 cm	
39.	1 m = ____ + 88 cm	
40.	1 m = ____ + 99 cm	
41.	1 m – 1 cm = ____	
42.	1 m – 5 cm = ____	
43.	1 m – 7 cm = ____	
44.	1 m – 17 cm = ____	

Exit Ticket Packet

Name _____ Date _____

Sara lined up her centimeter cubes to find the length of the picture of the paintbrush.

Sara thinks the picture of the paintbrush is 5 centimeter cubes long.



Is her answer correct? Explain why or why not.

_____

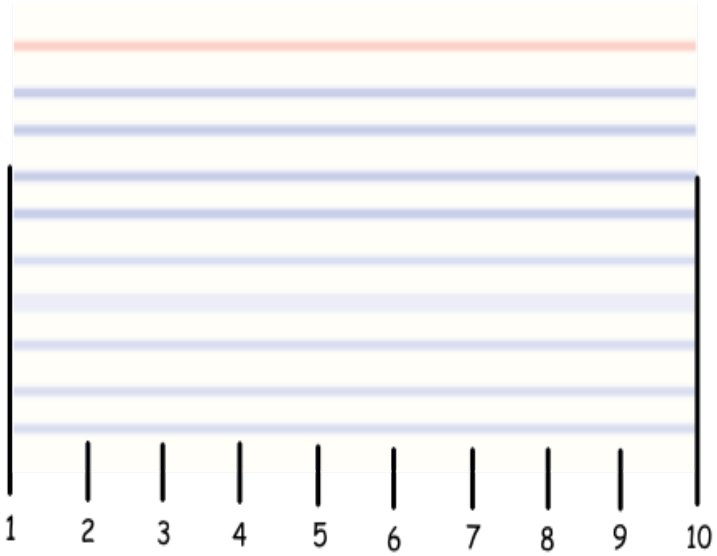
_____

_____

_____

Name _____ Date _____

Matt measured his index card using a centimeter cube. He marked the endpoint of the cube as he measured. He thinks the index card is 10 centimeters long.



a. Is Matt's work correct? Explain why or why not.

_____

_____

_____

b. If you were Matt's teacher what would you tell him?

_____

_____

_____

Name _____ Date _____

1. Use your centimeter ruler. What is the length in centimeters of each line?

   a. Line A is _____ cm long.

   Line A _____

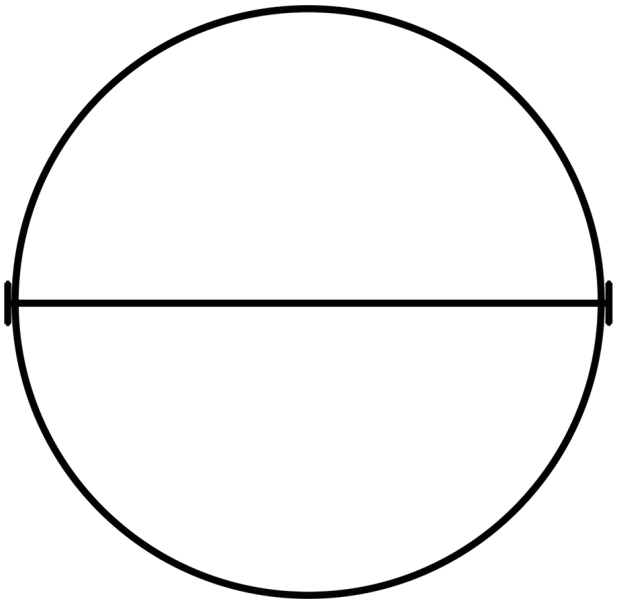
   b. Line B is _____ cm long.

   Line B _____

   c. Line C is _____ cm long.

   Line C _____

2. Find the length across the center of the circle.



The length across the circle is _____ cm.

Name _____ Date _____

1. Circle cm (centimeter) or m (meter) to show which measurement you would use to measure the length of each object.

   a. Length of a train cm or m

   b. Length of an envelope cm or m

   c. Length of a house cm or m

2. Would it take more meters or more centimeters to measure the length of a playground? Explain your answer.

_____

_____

_____

_____

Name _____ Date _____

1. Circle the most reasonable estimate for each object.

   a. Length of a push pin 1 cm or 1 m

   b. Length of a classroom door 100 cm or 2 m

   c. Length of a pair of student scissors 17 cm or 42 cm

2. Estimate the length of your desk. (Remember, the width of your pinky is about 1 cm.)

   My desk is about _____ cm long.

3. How does knowing that an unsharpened pencil is about 20 cm long help you estimate the length of your arm from your elbow to your wrist?

_____

_____

_____

_____

Name _____ Date _____

Measure the length of each line and compare.

Line M _____

Line N _____

Line O _____

1. Line M is about _____ cm longer than Line O.

2. Line N is about _____ cm shorter than Line M.

3. Line N doubled would be about _____ cm (longer/shorter) than Line M.

Name _____ Date _____

Measure the lines with small paper clips and then with a centimeter ruler. Then, answer the questions below.

Line 1 _____

Line 2 _____

Line 3 _____

a. Line 1

_____ paper clips _____ cm

b. Line 2

_____ paper clips _____ cm

c. Line 3

_____ paper clips _____ cm

Explain why each measurement required more centimeters than paper clips.

_____

_____

_____

Name _____ Date _____

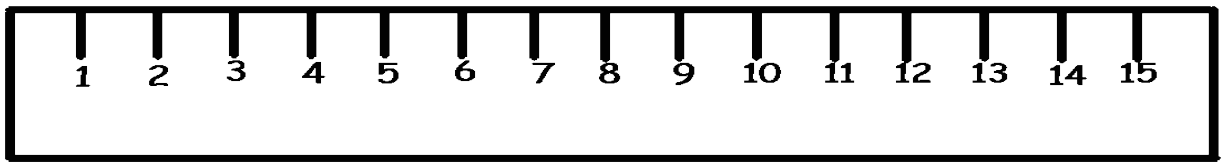
1. Use the ruler below to draw one line that begins at 2 cm and ends at 12 cm. Label that line R. Draw another line that begins at 5 cm and ends at 11 cm. Label that line S.

   a. Add 3 cm to Line R and 4 cm to Line S.

   b. How long is Line R now? _____ cm

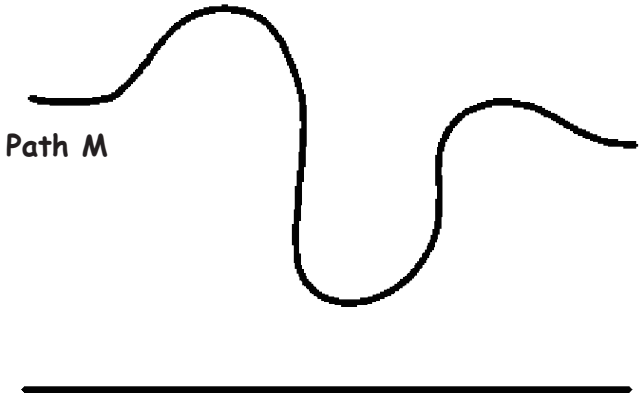
   c. How long is Line S now? _____ cm

   d. The new Line S is _____ cm (shorter/longer) than the new Line R.



Name _____ Date _____

1. Use your string to measure the two paths. Write the length in centimeters.



Path N

Path M is _____ cm long.

Path N is _____ cm long.

2. Mandy measured the paths and said both paths are the same length. Is Mandy correct? Yes or No? _____

Explain why or why not.

_____

_____

3. Draw a tape diagram to compare the two lengths.

Name _____ Date _____

Steven has a black leather strip that is 13 centimeters long. He cut off 5 centimeters. His teacher gave him a brown leather strip that is 16 centimeters long. What is the total length of both strips?

Assessment Packet

Name _____ Date _____

Note: Students need a centimeter ruler and 6 small paper clips to complete the assessment.

1. Use your ruler to find the length of the pencil and the crayon.

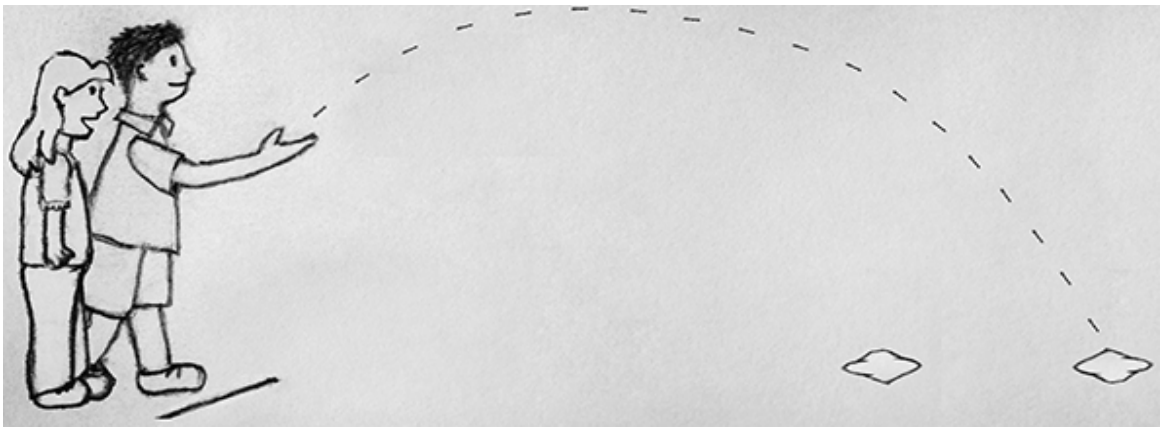
a. How long is the crayon? _____ centimeters

b. How long is the pencil? _____ centimeters

c. Which is longer? pencil crayon

d. How much longer? _____ centimeters

2. Samantha and Bill are having a beanbag throwing contest and need to measure each of their throws.



a. Circle the most appropriate tool to measure their throws.

ruler paper clips meter stick centimeter cubes

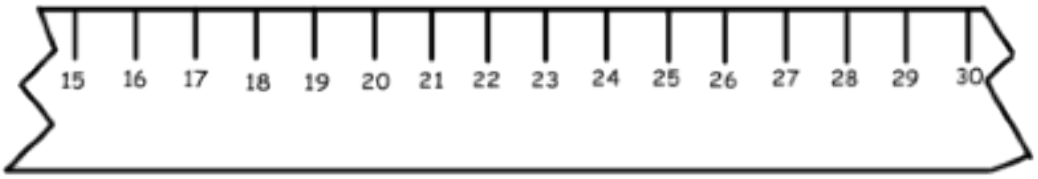
b. Explain your choice using pictures or words.

c. Bill throws his beanbag 5 meters, which is 2 meters farther than Samantha threw her beanbag. How far did Samantha throw her beanbag? Draw a diagram or picture to show the length of their throws.

d. Sarah threw her beanbag 3 meters farther than Bill. Who won the contest? How do you know?

3. Use the broken centimeter ruler to solve the problem.

   A grasshopper jumped 7 centimeters forward and 4 centimeters back and then stopped. If the grasshopper started at 18, where did the grasshopper stop? Show your work.



4.

Vanessa's Ribbons

Ribbon A

Ribbon B

   a. Measure the length of Ribbon A with your centimeter ruler and your paper clip. Write the measurements on 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.

c. Estimate the length of Ribbon B in paper clips.

_____ paper clips

d. How much longer is Ribbon A than Ribbon B? Give your answer in centimeters.

e. Vanessa is using the ribbons to wrap a gift. If she tapes the ribbons together with no overlap, how many centimeters of ribbon does she have altogether?

f. If Vanessa needs 20 centimeters of ribbon, how much more does she need?