

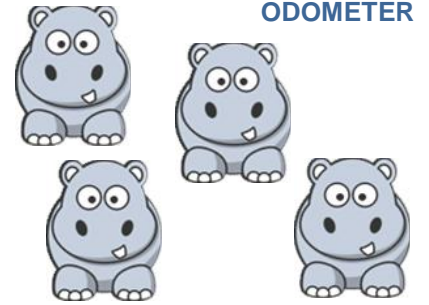
Name: _____

Diagnostic Test:

Allow the student to work through the test. No need to print the whole test. Start the student at a point where success is guaranteed (usually at a level below their current level). Stop the test when the content is above the level required). Begin using the odometer and worksheets on the level at which the errors are first recorded.

Assessment:

Use the test to record results for a student working at a given level on the worksheets. (e.g. having just completed work on counting in thousands in 1s, 2s and 5s—print sheets 20C)



Numbers 0 to 10

A. Count on or back in ones:

- 1) 3 , 4 , 5 , _____ , _____
- 2) 10 , 9 , 8 , _____ , _____

B. Write the numbers before and after:

- 3) _____ , 8 , _____
- 4) _____ , 1 , _____

C. Count on or back in twos:

- 1) 1 , 3 , 5 , _____ , _____
- 2) 8 , 6 , 4 , _____ , _____

D. Write the numbers 2 before and 2 after:

- 3) _____ , 8 , _____
- 4) _____ , 7 , _____

Worksheets 1 & 2

Numbers 0 to 20

A. Count on or back in ones:

- 1) 7 , 8 , 9 , _____ , _____
- 2) 19 , 18 , 17 , _____ , _____

B. Write the numbers before and after:

- 3) _____ , 10 , _____
- 4) _____ , 19 , _____

C. Count on or back in twos:

- 1) 5 , 7 , 9 , _____ , _____
- 2) 18 , 16 , 14 , _____ , _____

D. Write the numbers 2 before and 2 after:

- 3) _____ , 18 , _____
- 4) _____ , 11 , _____

Worksheets 3 & 4

Numbers 0 to 100

A. Count on or back in ones:

1) 47 , 48 , 49 , _____ , _____

2) 83 , 82 , 81 , _____ , _____

B. Write the numbers before and after:

3) _____ , 69 , _____

4) _____ , 90 , _____

C. Count on or back in twos:

1) 25 , 27 , 29 , _____ , _____

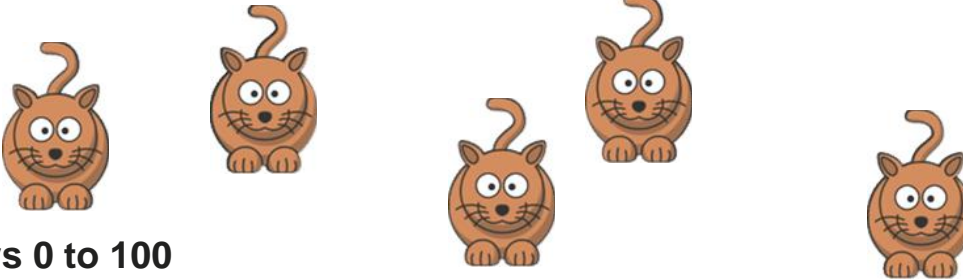
2) 66 , 64 , 62 , _____ , _____

D. Write the numbers 2 before and 2 after:

3) _____ , 78 , _____

4) _____ , 51 , _____

Worksheets 5 & 6



Numbers 0 to 100

A. Count on or back in fives:

1) 65 , 70 , 75 , _____ , _____

2) 20 , 15 , 10 , _____ , _____

B. Write the numbers 5 before and 5 after:

3) _____ , 60 , _____

4) _____ , 85 , _____

C. Count on or back in 10s or 20s:

1) 43 , 33 , 23 , _____ , _____

2) 16 , 36 , 56 , _____ , _____

D. Write the numbers 10 before and 10 after:

3) _____ , 77 , _____

4) _____ , 19 , _____

Worksheets 7 & 8

Name: _____



Numbers 0 to 100

A. Write the numbers before and after.

1 before		1 after
	380	
	700	
10 before		10 after
	507	
	619	

B. Fill in the missing numbers:

- ____; ____; ____; 440; 460; 480
- 832; 632; ____; ____; ____
- 703; 702; 701; ____; ____; ____
- ____; 700; 750; 800; ____; ____
- ____; ____; ____; 710; 715; 720
- ____; 400; ____; 402; ____; 404

Worksheets 9 & 10



Numbers 0 to 100

A. Write the numbers before and after.

1 before		1 after
	4,110	
	8,000	
100 before		100 after
	5,645	
	2,089	

B. Count on or back in any place:

- 6,013; 6,012; 6,011; ____; ____
- 4,031; 4,021; 4,011; ____; ____
- 7,005; 7,003; 7,001; ____; ____
- 2,015; 2,010; 2,005; ____; ____
- 4,213; 4,113; 4,013; ____; ____
- 5,851; 5,901; 5,951; ____; ____

Worksheets 11 & 12

Name: _____

ODOMETER



Numbers 0 to 999,999

10 before		10 after
	70,094	
	230,009	

100 before		100 after
	49,999	
	551,087	

Count on or back in any of the places:

- 28,996 ; 28,997 ; 28,998 ; _____ ; _____ ; _____ ; _____
- 55,845 ; 50,845 ; 45,845 ; _____ ; _____ ; _____ ; _____
- 579,799 ; 589,799 ; 599,799 ; _____ ; _____ ; _____ ; _____
- _____ ; _____ ; _____ ; _____ ; 100,489 ; 100,689 ; 100,889

Worksheets 13 & 14



Numbers 0 to 9,999,999

10 before		10 after
	7,690,100	
	8,814,005	

100 before		100 after
	4,518,002	
	1,010,927	

Count on or back in any of the places:

- 5,104,211 ; 5,103,211 ; 5,102,211 ; _____ ; _____ ; _____ ; _____
- 7,225,403 ; 7,220,403 ; 7,215,403 ; _____ ; _____ ; _____ ; _____
- 3,440,508 ; 3,440,308 ; _____ ; _____ ; _____ ; 3,439,508 ; _____
- _____ ; _____ ; _____ ; _____ ; 4,000,043 ; 5,000,043 ; 6,000,043

Worksheets 15

Name: _____



ODOMETER

Numbers 0 to 99.99

1 tenth before		1 tenth after
	39.9	
	60	

1 before		1 after
	70.9	
	59.8	

Count on or back in any of the places:

- 40.4 ; 40.3 ; 40.2 ; _____ ; _____ ; _____ ; _____
- 88.3 ; 88.5 ; 88.7 ; _____ ; _____ ; _____ ; _____
- 62 ; _____ ; 61 ; _____ ; 60 ; _____ ; 59
- _____ ; _____ ; _____ ; _____ ; 10.2 ; 10.3 ; 10.4



Worksheets 16 & 17

Numbers 0 to 99.99 and 999.999

1 hundredth before		1 hundredth after
	29.99	
	70	

1 thousandth before		1 thousandth after
	410	
	899.999	

Count on or back in any of the places:

- 80.06 ; 80.04 ; 80.02 ; _____ ; _____ ; _____ ; _____
- 12.01 ; 11.51 ; 11.01 ; _____ ; _____ ; _____ ; _____
- 210.02 ; 210.015 ; 210.01 ; _____ ; _____ ; _____ ; _____
- _____ ; _____ ; _____ ; _____ ; 660.003 ; 660.005 ; 660.007

Worksheets 18 & 19

Name: _____

ANSWERS

Diagnostic Test or Assessment 20 A

Diagnostic Test:

Allow the student to work through the test. No need to print the whole test. Start the student at a point where success is guaranteed (usually at a level below their current level). Stop the test when the content is above the level required). Begin using the odometer and worksheets on the level at which the errors are first recorded.

Assessment:

Use the test to record results for a student working at a given level on the worksheets. (e.g. having just completed work on counting in thousands in 1s, 2s and 5s—print sheets 20C)



Numbers 0 to 10

A. Count on or back in ones:

1) 3 , 4 , 5 , 6 , 7

2) 10 , 9 , 8 , 7 , 6

B. Write the numbers before and after:

3) 7 , 8 , 9

4) 0 , 1 , 2

C. Count on or back in twos:

1) 1 , 3 , 5 , 7 , 9

2) 8 , 6 , 4 , 2 , 0

D. Write the numbers 2 before and 2 after:

3) 6 , 8 , 10

4) 5 , 7 , 9

Worksheets 1 & 2

Numbers 0 to 20

A. Count on or back in ones:

1) 7 , 8 , 9 , 10 , 11

2) 19 , 18 , 17 , 16 , 15

B. Write the numbers before and after:

3) 9 , 10 , 11

4) 18 , 19 , 20

C. Count on or back in twos:

1) 5 , 7 , 9 , 11 , 13

2) 18 , 16 , 14 , 12 , 10

D. Write the numbers 2 before and 2 after:

3) 16 , 18 , 20

4) 9 , 11 , 13

Worksheets 3 & 4

Numbers 0 to

ANSWERS

A. Count on or back in ones:

1) 47 , 48 , 49 , 50 , 51

2) 83 , 82 , 81 , 80 , 79

B. Write the numbers before and after:

3) 68 , 69 , 70

4) 89 , 90 , 91

C. Count on or back in twos:

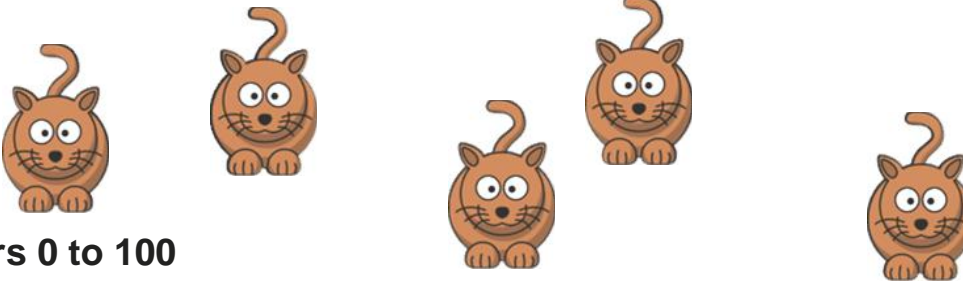
1) 25 , 27 , 29 , 31 , 33

2) 66 , 64 , 62 , 60 , 58

D. Write the numbers 2 before and 2 after:

3) 76 , 78 , 80

4) 49 , 51 , 53



Worksheets 5 & 6

Numbers 0 to 100

A. Count on or back in fives:

1) 65 , 70 , 75 , 80 , 85

2) 20 , 15 , 10 , 5 , 0

B. Write the numbers 5 before and 5 after:

3) 55 , 60 , 65

4) 80 , 85 , 90

C. Count on or back in 10s or 20s:

1) 43 , 33 , 23 , 13 , 3

2) 16 , 36 , 56 , 76 , 96

D. Write the numbers 10 before and 10 after:

3) 67 , 77 , 87

4) 9 , 19 , 29

Worksheets 7 & 8

Name: _____

ANSWERS

ODOMETER



Numbers 0 to 100

A. Write the numbers before and after.

1 before		1 after
379	380	381
699	700	701
10 before		10 after
497	507	517
609	619	629

B. Fill in the missing numbers:

- 380 ; 400 ; 420 ; 440 ; 460 ; 480
- 832 ; 632 ; 432 ; 232 ; 32
- 703 ; 702 ; 701 ; 700 ; 699 ; 698
- 650 ; 700 ; 750 ; 800 ; 850 ; 900
- 695 ; 700 ; 705 ; 710 ; 715 ; 720
- 399 ; 400 ; 401 ; 402 ; 403 ; 404

Worksheets 9 & 10



Numbers 0 to 1000

A. Write the numbers before and after.

1 before		1 after
4,109	4,110	4,111
7,999	8,000	8,001
100 before		100 after
5,545	5,645	5,745
1,989	2,089	2,189

B. Count on or back in any place:

- 6,013 ; 6,012 ; 6,011 ; 6,010 ; 6,009
- 4,031 ; 4,021 ; 4,011 ; 4,001 ; 3,991
- 7,005 ; 7,003 ; 7,001 ; 6,999 ; 6,997
- 2,015 ; 2,010 ; 2,005 ; 2,000 ; 1,995
- 4,213 ; 4,113 ; 4,013 ; 3,913 ; 3,813
- 5,851 ; 5,901 ; 5,951 ; 6,001 ; 6,051

Worksheets 11 & 12

Name: _____

ANSWERS

ODOMETER



Numbers 0 to 999,999

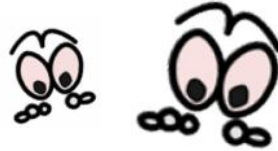
10 before		10 after
70,084	70,094	70,104
229,999	230,009	230,019

100 before		100 after
49,899	49,999	50,099
550,987	551,087	551,187

Count on or back in any of the places:

- 28,996 ; 28,997 ; 28,998 ; 28,999 ; 29,000 ; 29,001 ; 29,002
- 55,845 ; 50,845 ; 45,845 ; 40,845 ; 35,845 ; 30,845 ; 25,845
- 579,799 ; 589,799 ; 599,799 ; 609,799 ; 619,799 ; 629,799 ; 639,799
- 99,689 ; 99,889 ; 100,089 ; 100,289 ; 100,489 ; 100,689 ; 100,889

Worksheets 13 & 14



Numbers 0 to 9,999,999

10 before		10 after
7,690,090	7,690,100	7,690,110
8,813,995	8,814,005	8,814,015

100 before		100 after
4,517,902	4,518,002	4,518,102
1,010,827	1,010,927	1,011,027

Count on or back in any of the places:

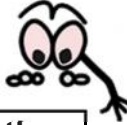
- 5,104,211 ; 5,103,211 ; 5,102,211 ; 5,101,211 ; 5,100,211 ; 5,099,211 ; 5,098,211
- 7,225,403 ; 7,220,403 ; 7,215,403 ; 7,210,403 ; 7,205,403 ; 7,200,403 ; 7,195,403
- 3,440,508 ; 3,440,308 ; 3,440,108 ; 3,439,908 ; 3,439,708 ; 3,439,508 ; 3,439,308
- 43 ; 1,000,043 ; 2,000,043 ; 3,000,043 ; 4,000,043 ; 5,000,043 ; 6,000,043

Worksheets 15

Name: _____

ANSWERS

Numbers 0 to 99.99



1 tenth before		1 tenth after
39.8	39.9	40
59.9	60	60.1



ODOMETER

1 before		1 after
69.9	70.9	71.9
58.8	59.8	60.8

Count on or back in any of the places:

- 40.4 ; 40.3 ; 40.2 ; 40.1 ; 40.0 ; 39.9 ; 39.8
- 88.3 ; 88.5 ; 88.7 ; 88.9 ; 89.1 ; 89.3 ; 89.5
- 62 ; 61.5 ; 61 ; 60.5 ; 60 ; 59.5 ; 59
- 9.8 ; 9.9 ; 10.0 ; 10.1 ; 10.2 ; 10.3 ; 10.4

Worksheets 16 & 17



Numbers 0 to 99.99 and 999.999

1 hundredth before		1 hundredth after
29.98	29.99	30.00
69.99	70	70.01

1 thousandth before		1 thousandth after
409.999	410	410.001
899.998	899.999	900.000

Count on or back in any of the places:

- 80.06 ; 80.04 ; 80.02 ; 80 ; 79.98 ; 79.96 ; 79.94
- 12.01 ; 11.51 ; 11.01 ; 10.51 ; 10.01 ; 9.51 ; 9.01
- 210.02 ; 210.015 ; 210.01 ; 210.005 ; 210 ; 209.995 ; 209.99
- 659.995 ; 659.997 ; 659.999 ; 660.001 ; 660.003 ; 660.005 ; 660.007

Worksheets 18 & 19