Date: _____

W.S (2.E.1) – Round Numbers to the Nearest 10 and 100

Objective: Round 2-digit and 3-digit numbers to the nearest 10 or 100.

> Rounding means making a number simpler – but keeping it close to the original!

When rounding to the nearest 10, we look at the digit in the ones place to help us decide whether to round up or to round down.

Weak Numbers
0
1
2
3
4

Strong Numbers
5
6
7
8
9
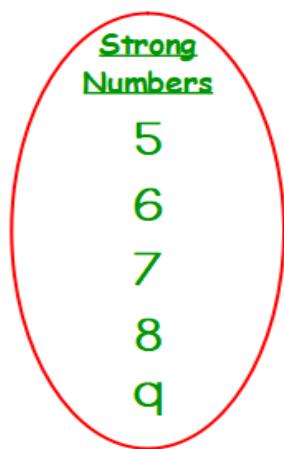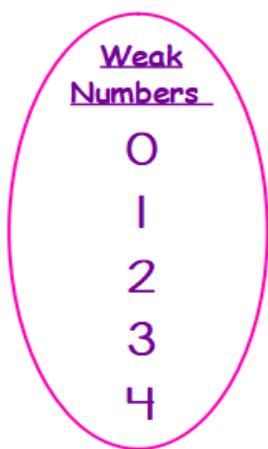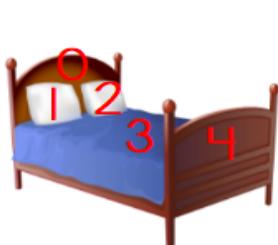
4 or less? Let it rest!
5 or more? Raise the score!

21, 22, 23 and 24 are closer to 20 than to 30.

25, 26, 27, 28 and 29 are closer to 30 than to 20.
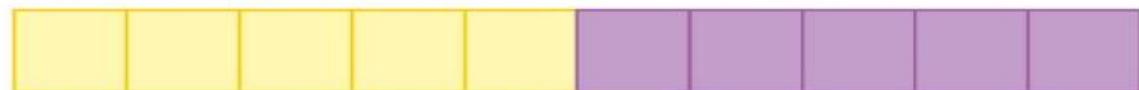
20   21   22   23   24   25   26   27   28   29   30

ones digit 4 or less
round down

ones digit 5 or more
round up

Q1. Look at the number line. Fill in the blanks with the **two tens** that the number is in between.

a)

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  80  81  82  83  84  85  86  87  88  89  90
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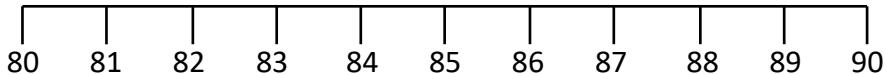
i) 82 is between _____80_____ and _____90_____.

It is closer to 80 than _____90_____.

82 rounded to the nearest 10 is _____80_____.

ii) 88 is between _____80_____ and _____90_____.

It is closer to _____90_____ than _____80_____.

88 rounded to the nearest 10 is _____90_____.

iii) 85 is halfway between _____80_____ and _____90_____.

85 rounded to the nearest 10 is _____90_____.

b)

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40        45        50        55        60
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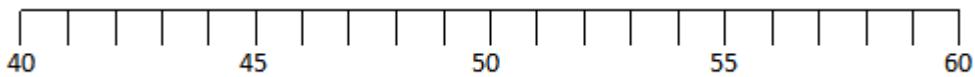
i) 41 is between 40 and 50.

It is closer to _____40_____ than _____50_____.

41 rounded to the nearest 10 is _____40_____.

ii) 52 is between 50 and _____60_____.

It is closer to _____50_____ than _____60_____.

52 rounded to the nearest 10 is _____50_____.

iii)   49 is between _____40_____ and _____50_____.

It is closer to _____50_____ than _____40_____.

49 rounded to the nearest 10 is _____50_____.

Q2. Study the number line below and fill in the blanks.
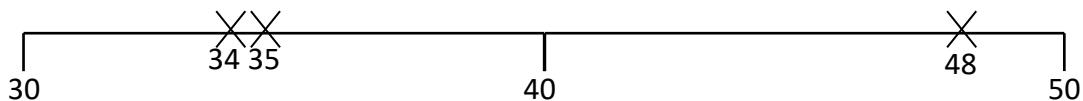
a)   34 rounded to the nearest 10 is _____30_____.

b)   35 rounded to the nearest 10 is _____40_____.

c)   48 rounded to the nearest 10 is _____50_____.

Q3. Round each number to the nearest 10.

7   _____10_____   72   _____70_____   77 _____80_____

15   _____20_____   40   _____40_____   4 _____0_____

91   _____90_____   89   _____90_____   9 _____10_____

5   _____10_____   26   _____30_____   63 _____60_____

Q4. Circle the number(s) that rounds to the number in the box when rounded to the nearest ten.

| 70 |

79   75   71   81   55   65   74

| 50 |

51   42   45   57   48   55   81

Q5. Fill in the blanks. Use the number line to help you.

a) The whole numbers that round down to **20** are

___21___, ___22___, ___23___ & ___24___.

The whole numbers that round up to **20** are

___15___, ___16___, ___17___, ___18___ & ___19___.

15   16   17   18   19   **20**   21   22   23   24
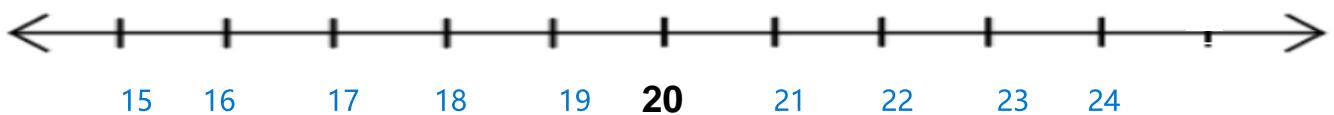
b) The whole numbers that round down to **50** are

___51___, ___52___, ___53___ & ___54___.

The whole numbers that round up to **50**

___45___, ___46___, ___47___, ___48___ & ___49___.


45   46   47   48   49   50   51   52   53   54
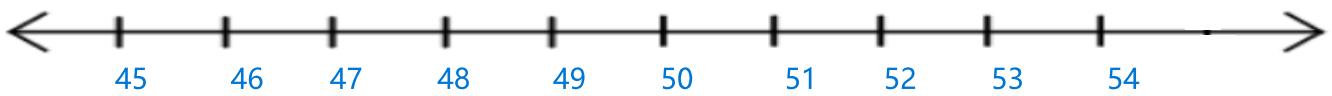
c) The whole numbers that round to 50 are:

45,46,47,48,49,50,51,52,53 &54

ROUNDING NUMBERS

WHAT'S THE RULE?

9
8
7
6
5

ROUND
THE
NUMBER
UP

4
3
2
1

ROUND
THE
NUMBER
DOWN
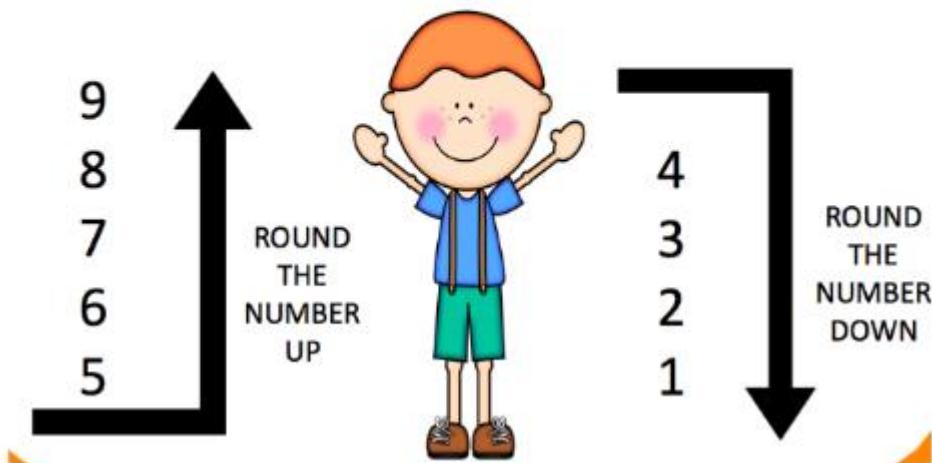
Q6. Fill in the blanks.

a) Round 252 to the nearest 10.

252

250   260
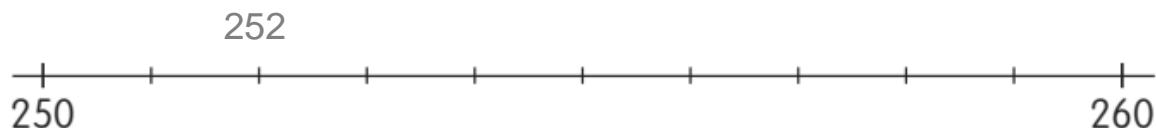
252 is between _____250_____ and _____260_____.

252 is closer to _____250_____ than _____260_____.

252 when rounded to the nearest 10 is _____250_____.

b) Round 468 to the nearest 10.

468

460   470
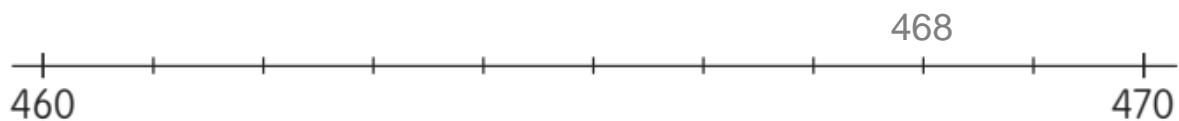
468 is between _____460_____ and _____470_____.

468 is closer to _____470_____ than _____460_____.

468 when rounded to the nearest 10 is _____470_____.

When rounding a whole number to the nearest 100, we look at the digit in the tens place to help us decide whether to round up or to round down.

c) Round 622 to the nearest 100.

622

+———+———+—×—+———+———+———+———+———+———+———+
600   700
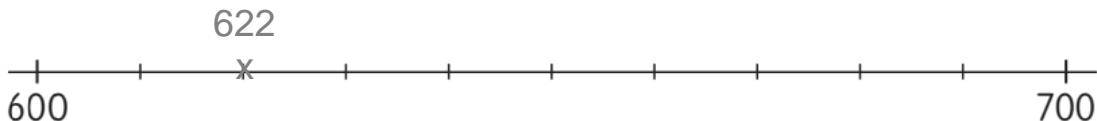
622 is between ___600___ and ___700___.

622 is closer to ___600___ than ___700___.

622 when rounded to the nearest 100 is ___600___.

d) Round 279 to the nearest 100.

279

+———+———+———+———+———+———+———+———+———×+———+———+
200   300

279 is between ___200___ and ___300___.

279 is nearer to ___300___ than ___200___.

279 when rounded to the nearest 100 is ___300___.

e) Round 850 to the nearest 100.

850

+———+———+———+———+———+———+———+———+———+———+———+
800   900
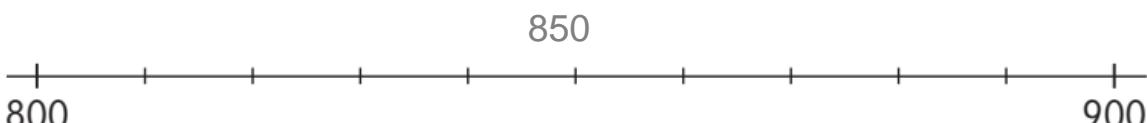
850 is exactly halfway between ___800___ and ___900___.

850 when rounded to the nearest 100 is ___900___.

Q7. Round each number to the nearest 10.

313 ___310___   654 ___650___

288 ___290___   555 ___560___

Q8. Round each number to the nearest 100.

623 ___600___   800 ___800___

349 ___300___   650 ___700___

Q9. There are 552 people at an exhibition.

a) Round the number of people to the nearest 100. ___600___

b) Yanni says that the answer will be the same if it is rounded to the nearest 10. Is she correct? Explain your answer.

No , Yanni is not correct .
_____

When rounding 552 to the nearest ten the answer is 550 not 600.
_____

Q10. Mary checked her savings and rounded the amount to the nearest 10. She got a value of $940.

Her actual savings is <u>less than</u> the rounded amount.
What are all the possible values for her savings?

935,936,937,938 and 939

_____

Q11. Use the number line to round the numbers to the <u>nearest 10</u>.

a) 607 __610__

607

600 ———————————————— 610

b) 613 __610__

613
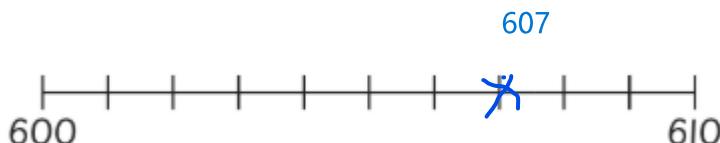
610 ———————————————— 620

Can you round the numbers to the nearest 100?

Q12. a) Round 645 to the nearest 10. __650__

Round 645 to the nearest 100. __600__

b) Round 95 to the nearest 10. __100__

Round 95 to the nearest 100. __100__

Q13. Use the number line to decide if you should round the numbers
up or down to the **nearest 100.**

Circle the correct answer.

a) 550 (Round up) / Round down

b) 512 Round up / (Round down)

c) 666 (Round up) / Round down

d) 649 Round up / (Round down)

e) 651 (Round up) / Round down

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   ├──────────────┼──────────────┤
  500            600            700
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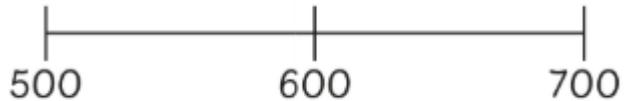
Q14. Ms. Lee drives from her house to the library and then to the
park.

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        35 km                   128 km
House ─────────── Library ──────────────────── Park
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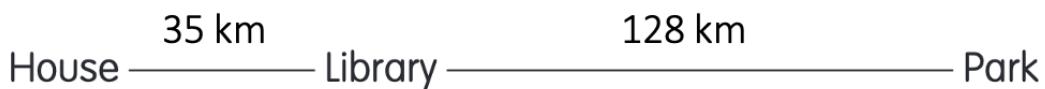
Round each distance Ms. Lee travels to the nearest 10.

From house to library: _____40_____ km

From library to   Park: _____130_____ km

Q15. Study the rounding hill below.

Round the balls to the nearest 100.

Fill in the table with the correct numbers.
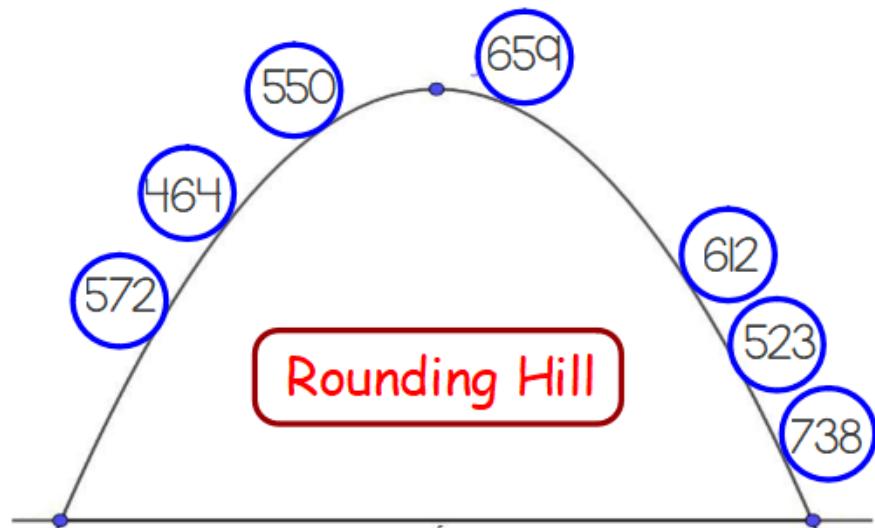
500	**600**	**700**
464	572	659
523	550	738
	612	

Q16. Use the **Venn diagram** to sort the following numbers.

146, 150, 200, 143, 100, 90, 120

Each circle shows a group

200

Numbers that round to **150** when rounded to the **nearest 10**

Numbers that round to **100** when rounded to the **nearest 100**

146

150

120

90

143

100

When a number is in one circle, it belongs to one group

When a number is in here, it belongs to both groups