

Date:

L.O: To round to the nearest 10 and 100



Starter: 5 a day

$6 + 19 =$

$4 + 4 + 4 + 4 =$

$38 - 20 =$

$\frac{1}{2} \text{ of } 30 =$

$500 + 300 =$

**L.O: To round a number to the nearest 10 and 100**

**S.C:**

I must correctly place a number on a number line.

I should know which multiples of 10 and 100 a number is in between.

I could use the rounding rule.

I could problem-solve and explain my reasoning.

**Key Vocab**

rounding

10

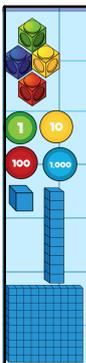
100

up

down

rounding rule

number line



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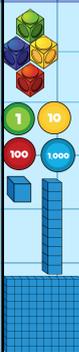
**Key Vocab**  
rounding  
10  
100  
up  
down  
rounding rule  
number line

**Revisit:**

Complete the sequences.

0	50	100			250	
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**Key Vocab**  
 rounding  
 10  
 100  
 up  
 down  
 rounding rule  
 number line

Here is a list of numbers. I need to **estimate** (give a sensible guess) the total.

32, 77, 11

I don't need to find the correct answer as I only need to estimate the total and the most efficient way to do this is to round the numbers to the nearest 10.

Let's start with rounding 32 to the nearest 10.

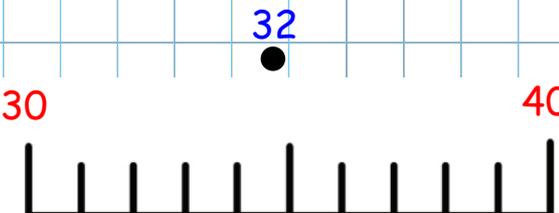
**multiple:** is a number that can be divided into another number.

1. Which **multiples of 10** is 32 in between?



10
20
30
40
50
60
70
80
90
100

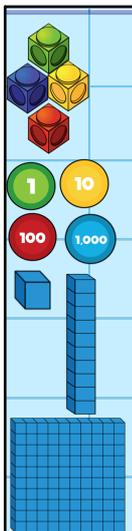
2. Where would 32 go on the number line?



3. Is 32 closer to 30 or 40?



4. 32 rounded to the nearest 10 is



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Key Vocab

rounding

10

100

up

down

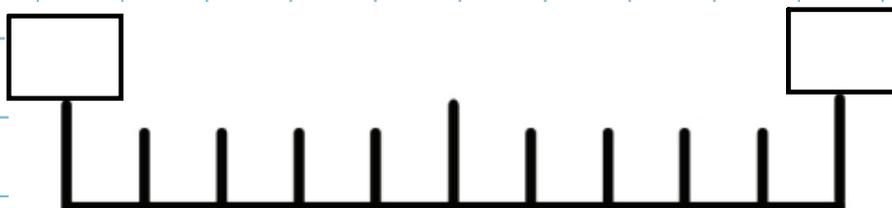
rounding rule

number line

Your turn! Round 77 and 11 to the nearest 10.

**multiple:** is a number that can be divided into another number.

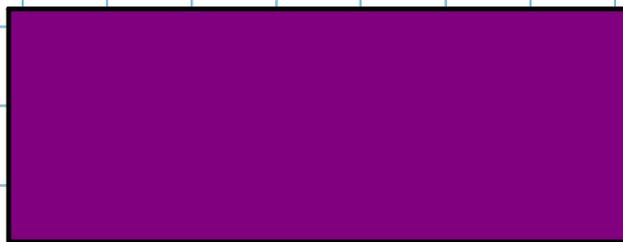
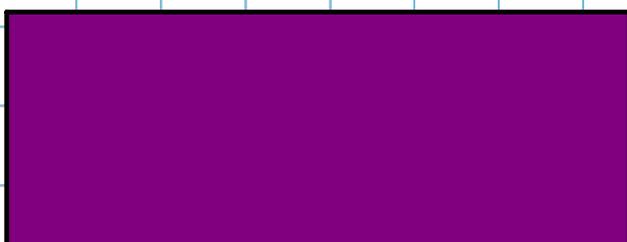
1. Which multiples of 10 is 77 and 11 in between?



10  
20  
30  
40  
50  
60  
70  
80  
90  
100

2. Place 77 and 11 on the number line

3. Which multiple of 10 is the number closest to?



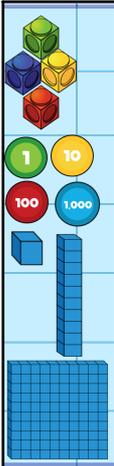
77 rounded to the nearest 10 is: 80

11 rounded to the nearest 10 is: 10

32 rounded to the nearest 10 is: 30

**Estimated total:**

$$80 + 10 + 30 = 120$$



L.O: To round a number to the nearest 10 and 100

S.C:

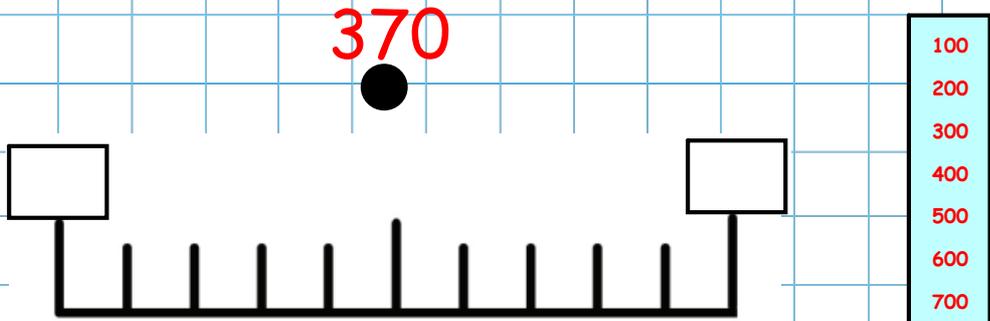
- I must correctly place a number on a number line.
- I should know which multiples of 10 and 100 a number is in between.
- I could use the rounding rule.
- I could problem-solve and explain my reasoning.

**Key Vocab**  
 rounding  
 10  
 100  
 up  
 down  
 rounding rule  
 number line

**multiple:** is a number that can be divided into another number.

How to round to the nearest 100.

1. Which multiples of 100 is the number in between?
2. Place the number on the number line
3. Which multiple of 100 is the number closest to?



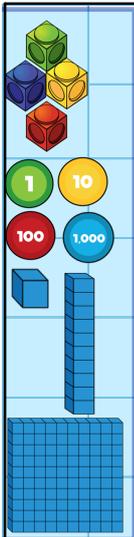
Your turn: round 430 to the nearest 100

430



round 854 to the nearest 100

854



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Key Vocab

rounding

10

100

up

down

rounding rule

number line

## Rounding Rule:

<https://www.bbc.co.uk/bitesize/topics/zh8dmp3/articles/zpx2qty#:~:text=Rounding%20to%20the%20nearest%2010,4%20or%20less%2C%20round%20down.>

### Rounding Rule

To round a number to the nearest 10, look at the **units digit**.

If the units digit is **5 or more**, round up.

If the units digit is **4 or less**, round down.

1, 2, 3, 4  
round down

5, 6, 7, 8, 9  
round up

To round a number to the nearest 100, look at the **tens digit**.

If the tens digit is **5 or more**, round up.

If the tens digit is **4 or less**, round down.

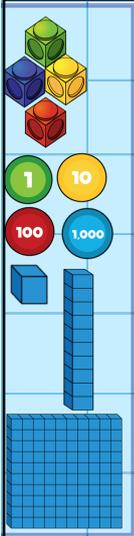
round **621** to the nearest **10**.

round **621** to the nearest **100**.

Your turn:

round **457** to the nearest **10**.

round **457** to the nearest **100**.



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Key Vocab

rounding

10

100

up

down

rounding rule

number line

## Reasoning and Problem Solving

872 rounded to the nearest 10 is 880.

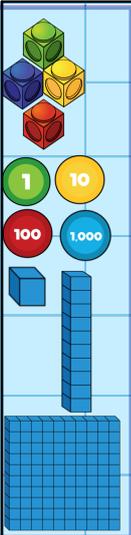
Do you agree?

Explain your reasoning.

I do not agree because 872 rounded to the nearest 10 is 870. 872 is closer to 870 by 2 and is 8 away from 880.

or

I do not agree because 2 is in the ones column and it is less than 5, so the rule is to round down. 872 rounded to the nearest 10 is 870.



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 10  
 100  
 up  
 down  
 rounding rule  
 number line

## Main task:

**Rounding to the nearest 10**

- Which multiples of 10 is the number in between?
- Place the number on the number line
- Which multiple of 10 is the number closest to?

30      32      40

**Rounding to the nearest 100**

- Which multiples of 100 is the number in between?
- Place the number on the number line
- Which multiple of 100 is the number closest to?

300      370      400

2 mins to stick in books!

**Rounding Rule**

To round a number to the nearest 10, look at the **units digit**.  
 If the units digit is **5 or more**, round up.  
 If the units digit is **4 or less**, round down.

To round a number to the nearest 100, look at the **tens digit**.  
 If the tens digit is **5 or more**, round up.  
 If the tens digit is **4 or less**, round down.

1, 2, 3, 4
5, 6, 7, 8, 9  
round down
round up

**Fluency**

Can you round these two-digit numbers to the nearest 10? Use the number lines to help you.

28 to the nearest 10 = 30

1. 32 to the nearest 10 = \_\_\_\_\_

2. 46 to the nearest 10 = \_\_\_\_\_

3. 54 to the nearest 10 = \_\_\_\_\_

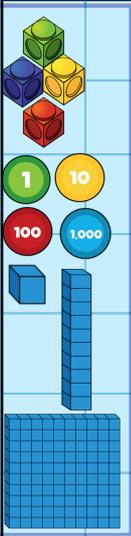
Can you round these 3-digit numbers to the nearest 100? Use the number lines to help you.

280 to the nearest 100 = 300

1. 362 to the nearest 100 = \_\_\_\_\_

2. 565 to the nearest 100 = \_\_\_\_\_

3. 849 to the nearest 100 = \_\_\_\_\_



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Plenary:

**Talk Partner**

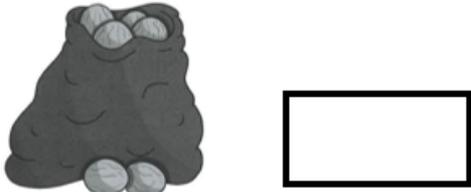


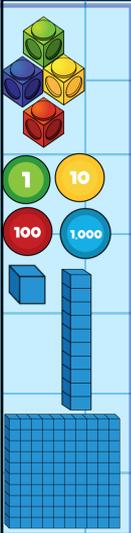
**Reasoning and Problem Solving**

The school kitchen wants to order enough jacket potatoes for lunch.

Potatoes comes in sacks of 100.

How many sacks do they need for 766 children?





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**Plenary GD: Talk Partner**



Using the number cards 0 - 9, can you make numbers that fit the following rules? Use each digit once.

0 1 2 3 4 5 6 7 8 9

1. When rounded to the nearest 10, I round to 20.
2. When rounded to the nearest 10, I round to 70.
3. When rounded to the nearest 100, I round to 300.

<b>1.</b>	15	16	17	18	19	21	22	23	24
<b>2.</b>	67, 68, 69, 72, 73 or 74	72, 73 or 74	68 or 69	67, 69, 72, 73 or 74	67, 68, 72, 73 or 74	67, 68, 69, 73 or 74	67, 68, 69, 71, 73 or 74	67, 68, 69, 71 or 74	67, 68, 69, 71 or 73
<b>3.</b>	any possibility between 250 -350 with a number not already used	any possibility between 250 -350 with a number not already used	any possibility between 250 -350 with a number not already used	any possibility between 250 -350 with a number not already used	any possibility between 250 -350 with a number not already used	any possibility between 250 -350 with a number not already used	any possibility between 250 -350 with a number not already used	any possibility between 250 -350 with a number not already used	any possibility between 250 -350 with a number not already used

- e.g.  
**1. 15**  
**2. 68**  
**3. 279**