

### 3.4.20 Friday place value year 3

Estimation is finding a number that is **close enough** to the right answer.

You are **not** trying to get the **exact** right answer

#### How to Estimate

We can estimate answers by rounding to the nearest multiple of 10.

#### Rounding reminder

When we round to the nearest 10 we look at the digit in the 1s column

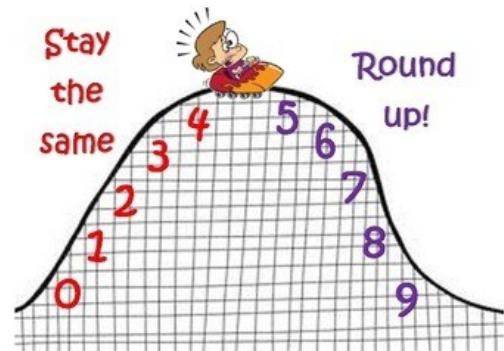
If it is 5 or higher you round up

If it is 4 or lower you round down

so 39 would round up to 40 and 34 would round down to 30

Round these numbers to nearest 10 e.g. 12 = 10 123 = 120

- A. 29
- B. 17
- C. 46
- D. 126
- E. 249
- F. 456



#### **Solving problems using rounding**

- $550 + 268$ : **268 is nearly 270** so an estimate is  $550 + 270 \approx 820$

When we write an estimation number sentence we use the  $\approx$  instead of the  $=$  sign to show that that this is an estimate.

1. Which of these calculations give an answer of about 50?  34 + 17 13 + 45 28 + 31 45 + 18	2. Which of these calculations give an answer of about 60?  37 + 23 31 + 16 17 + 53 39 + 29	3. Which of these calculations give an answer of about 80?  72 + 25 47 + 31 29 + 32 35 + 27	4. Which of these calculations give an answer of about 100?  87 + 26 14 + 98 82 + 17 45 + 67	5. Which of these calculations give an answer of about 120?  84 + 23 46 + 76 98 + 32 53 + 56
6. Which of these calculations give an answer of about 150?  76 + 77 63 + 76 125 + 41 95 + 43	7. Which of these calculations give an answer of about 200?  120 + 60 50 + 180 130 + 70 140 + 160	8. Which of these calculations give an answer of about 300?  150 + 175 205 + 90 105 + 175 75 + 220	9. Which of these calculations give an answer of about 400?  234 + 129 294 + 213 301 + 102 241 + 156	10. Which of these calculations give an answer of about 110?  87 + 26 14 + 98 82 + 17 45 + 67