

# Mean

Target: To understand Mean

Mini WB

No Calculator

Q1) 21, 16, 18, 7, 16

Mode:

Range:

Median:

Connect

Q2)

3, 7, -4, -4, 4, 5

Mode:

Range:

Median:

## No Calculator

Q1) 21, 16, 18, 7, 16

Mode: 16

Range:  $21 - 7 = 14$

Median: 16

Line the number up and find the middle for median

7, 16, 16, 18, 21

## Connect

ANSWER

Q2)

3, 7, -4, -4, 4, 5

Mode: -4

Range:  $7 - -4 = 11$

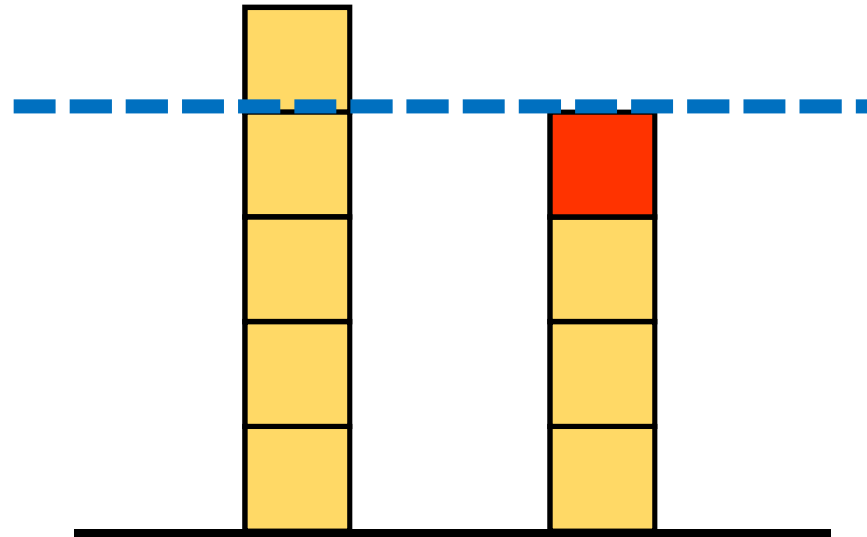
Median: 3.5

Line the number up and find the middle for median

-4, -4, 3, 4, 5, 7

# Finding a Mean

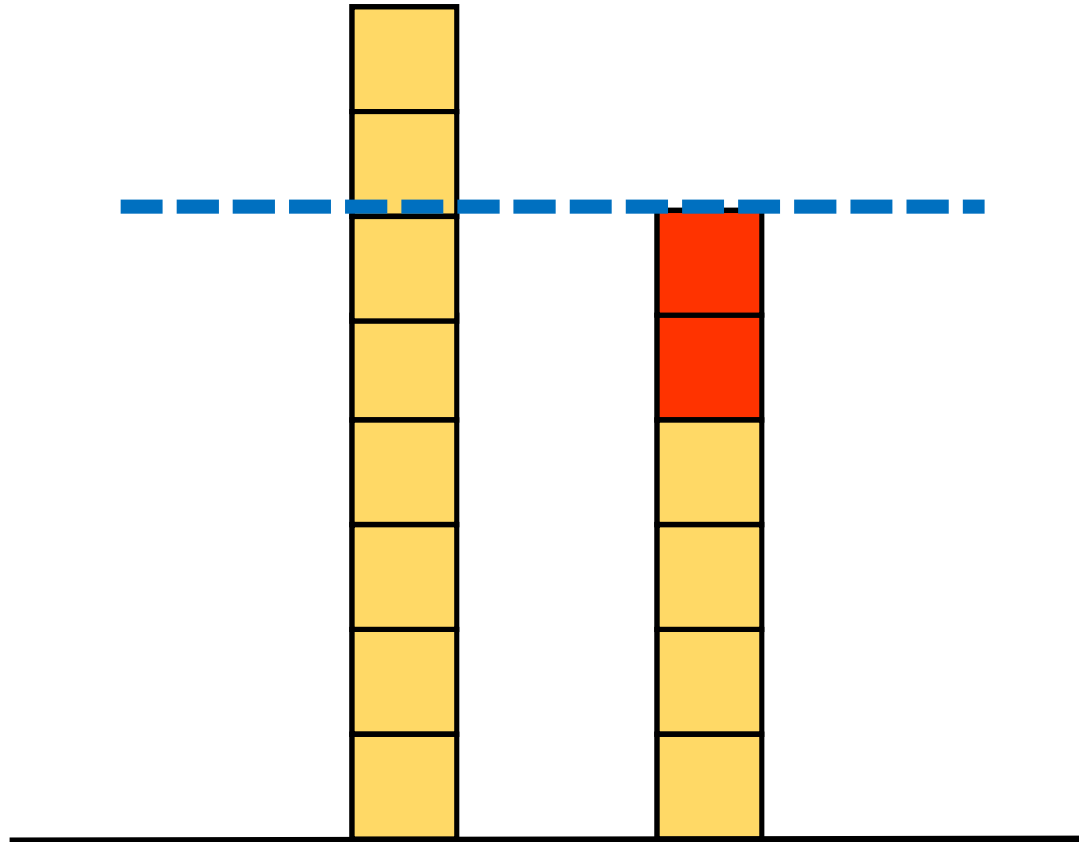
Activate



Mean = 4

# Finding a Mean

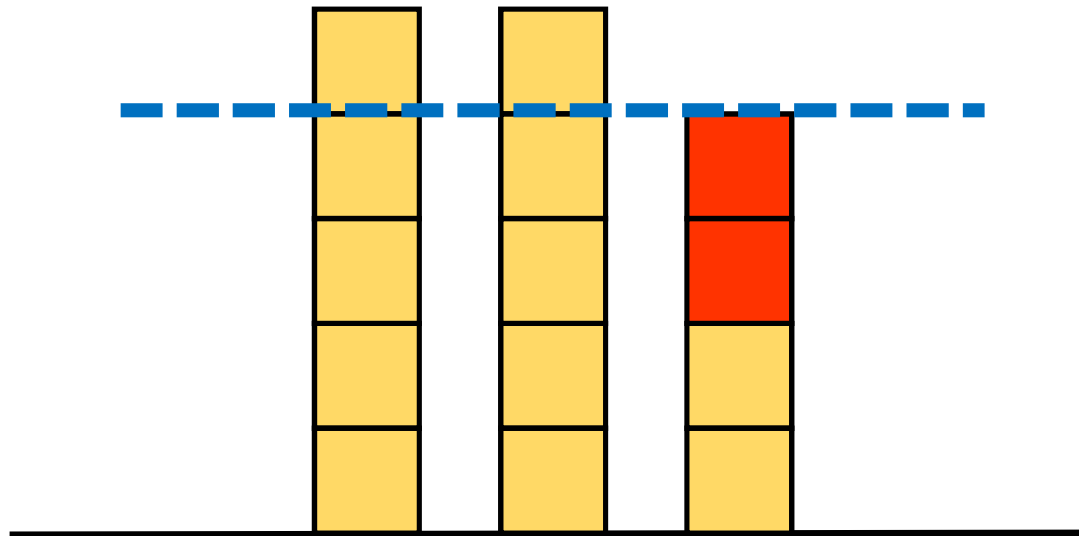
Activate



Mean = 6

# Finding a Mean

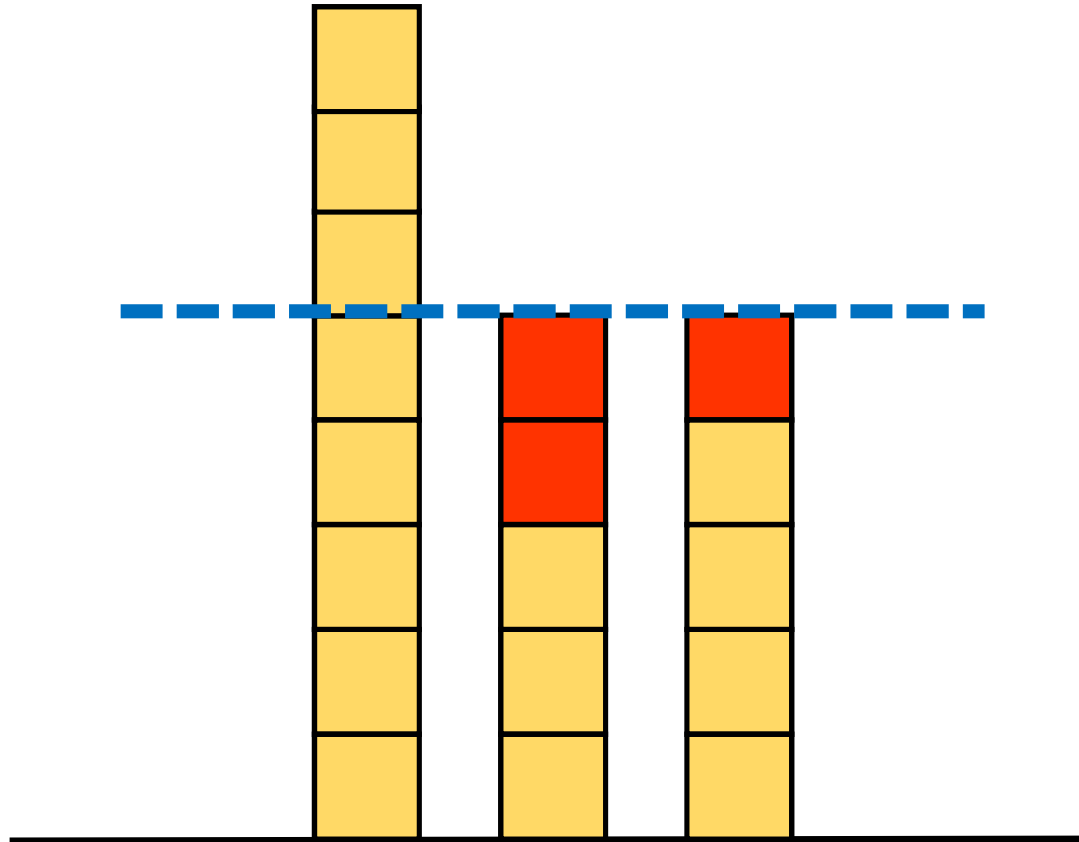
Activate



Mean = 4

# Finding a Mean

Activate



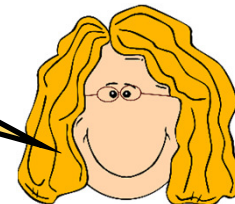
Mean = 5

Mayor Jones



Middleton City is the best!  
We have the tallest buildings!

Mayor Klein



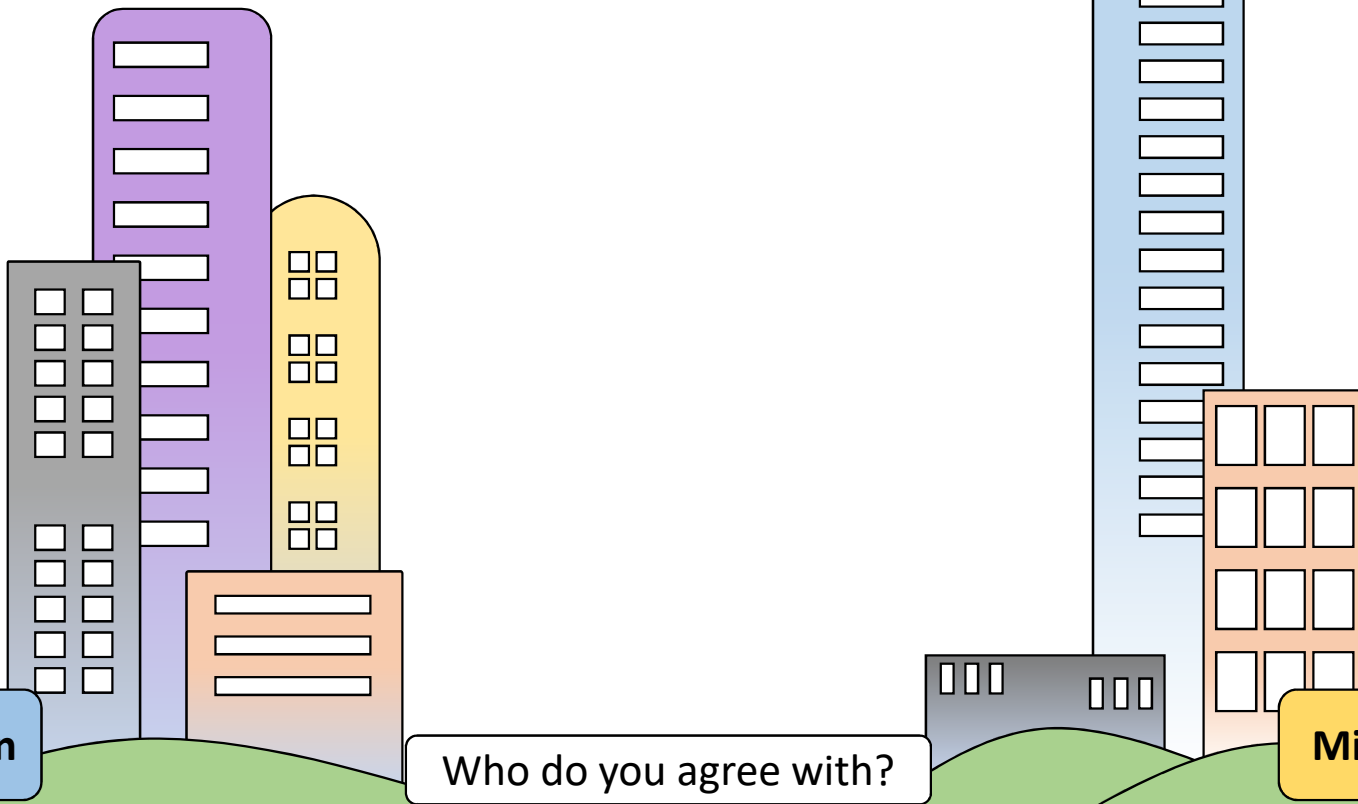
New Haven City is the best!  
We have the tallest buildings!

Activate

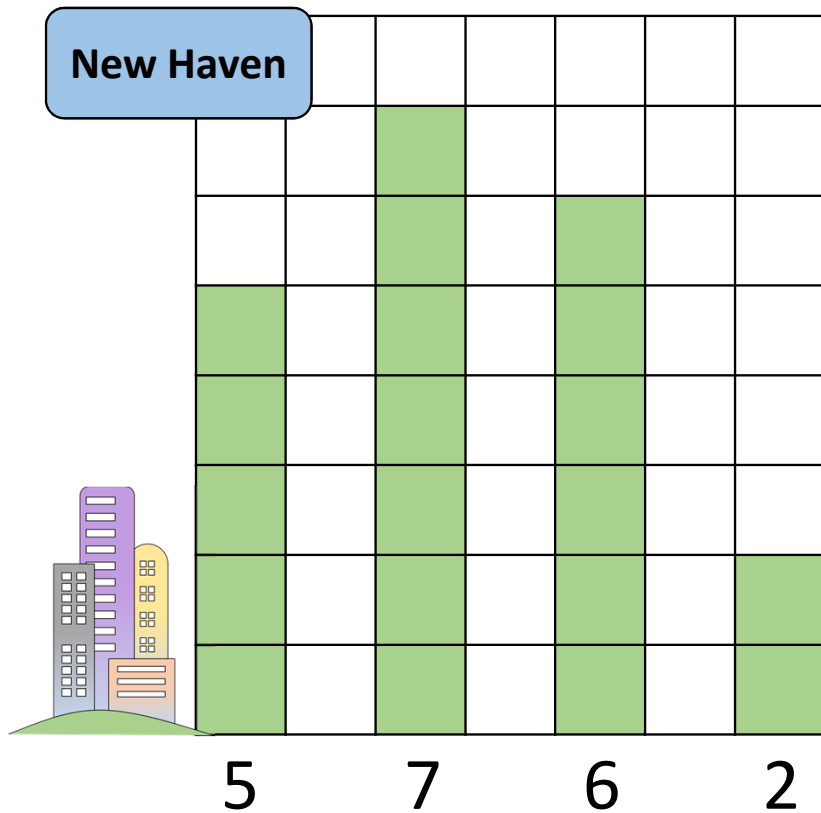
New Haven

Who do you agree with?

Middleton

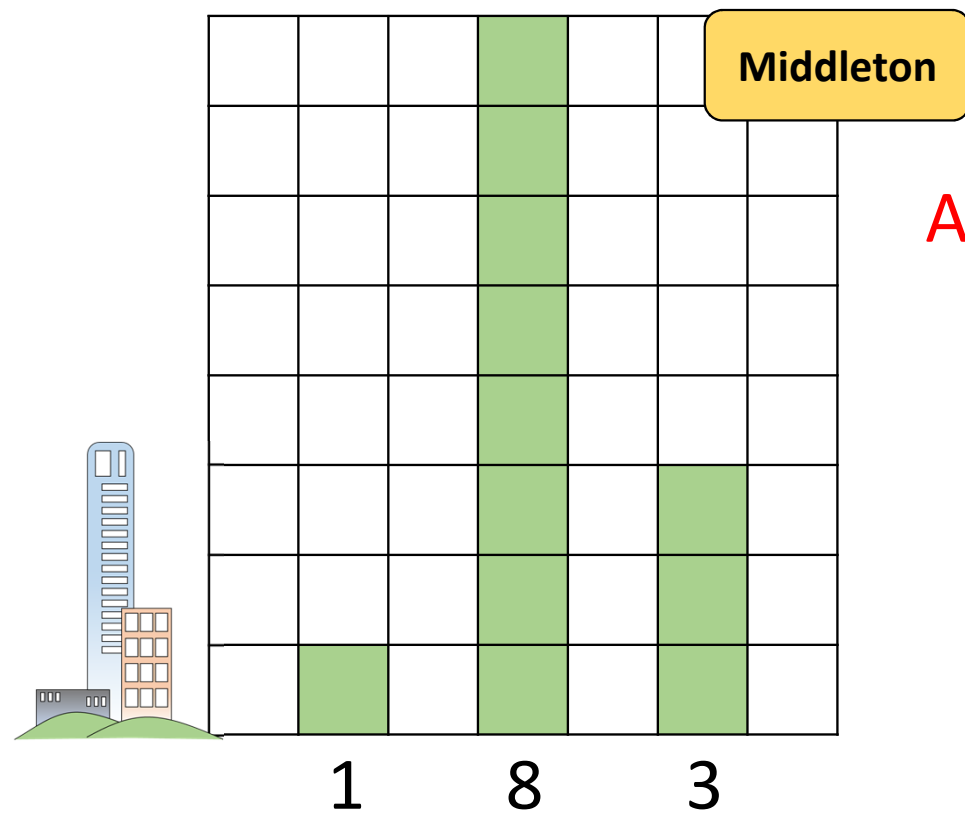






**Total:**  $5 + 7 + 6 + 2 = 20$

**Mean:**  $20 \div 4 = 5$



**Total:**  $1 + 8 + 3 = 12$

**Mean:**  $12 \div 3 = 4$

Activate

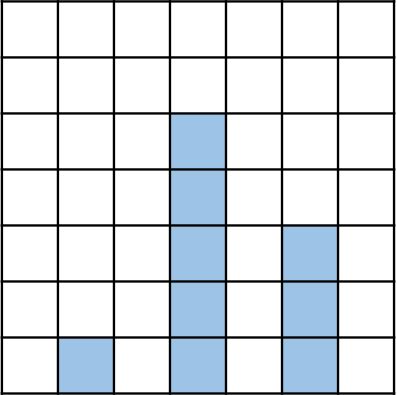
Middleton has the **tallest** building, but New Haven has a greater **mean average**.

Find the **mean average** for these cities.  
Which city has the tallest buildings?

Demo

**Abbotsfield**

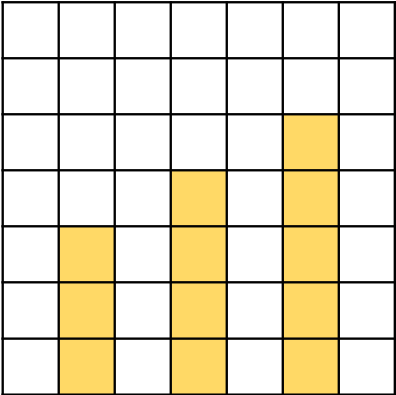
Q1)



Total = 9  
Mean =  $9 \div 3 = 3$

Q2)

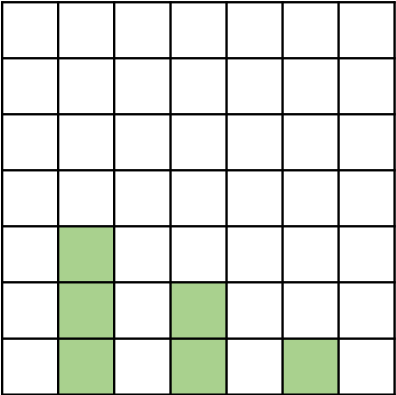
**Baker City**



Mean average =

Q3)

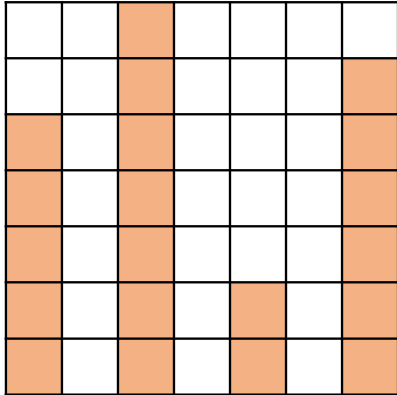
**Coving**



Mean average =

Q4)

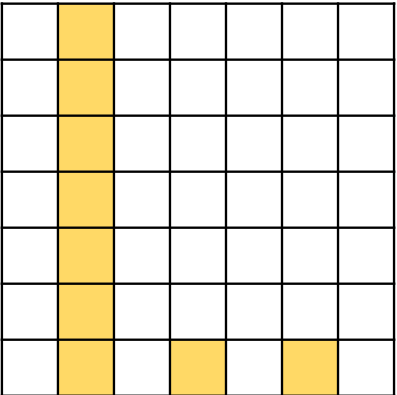
**Dean City**



Mean average =

**Edgington**

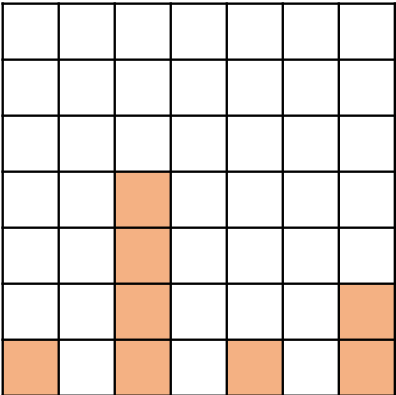
Q5)



Mean average =

Q6)

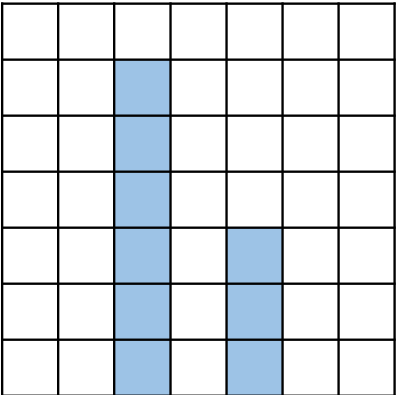
**Fringley**



Mean average =

Q7)

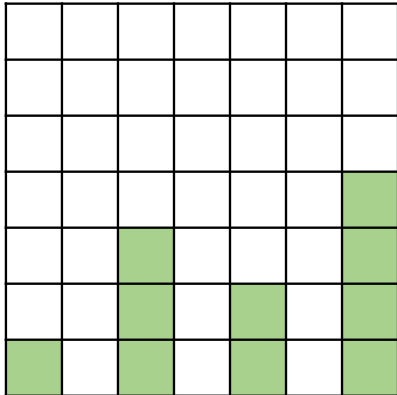
**Grantford**



Mean average =

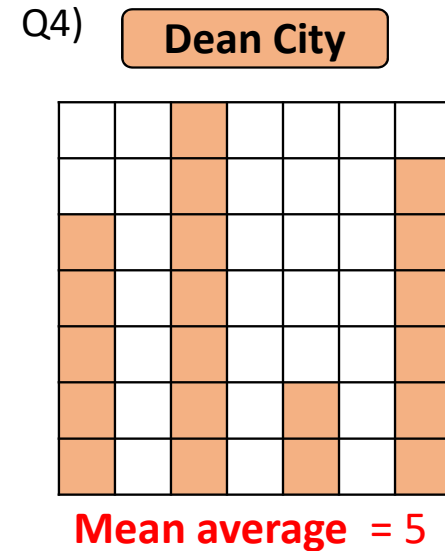
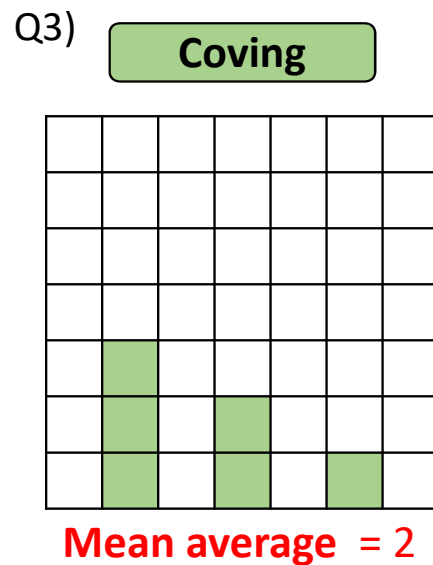
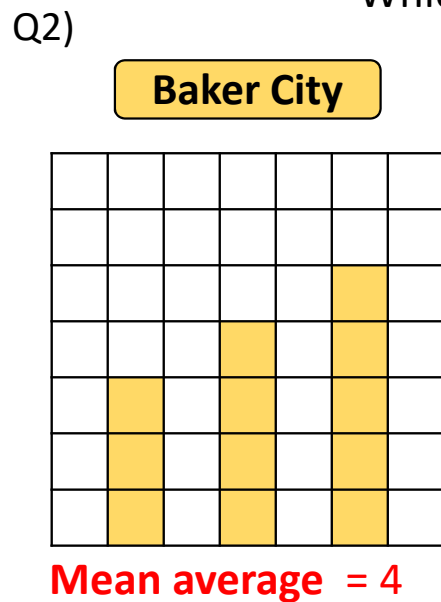
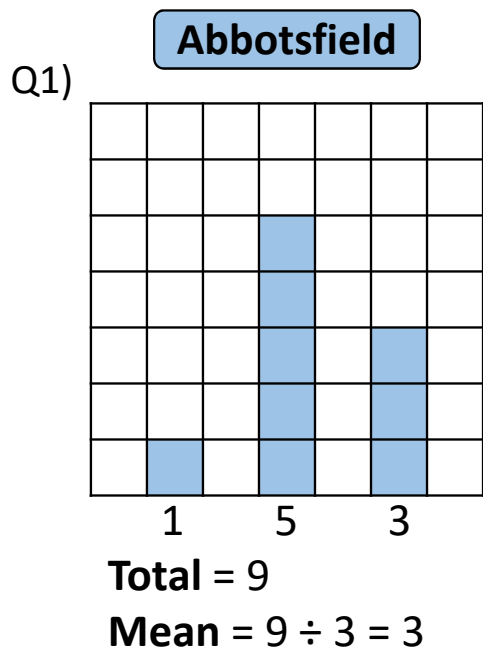
Q8)

**Hove**

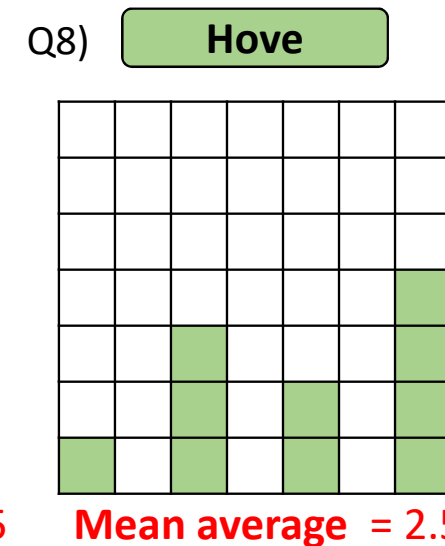
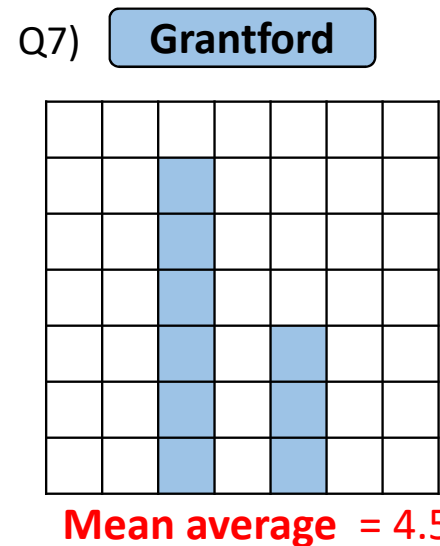
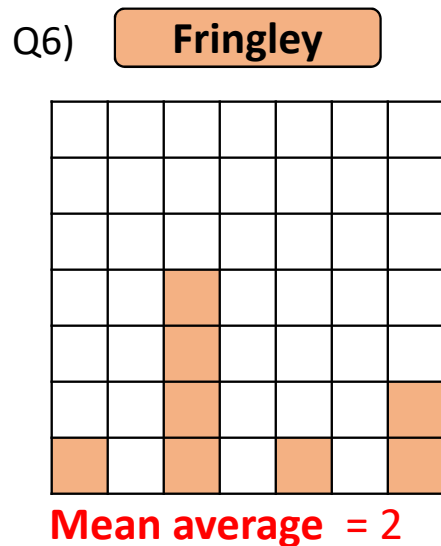
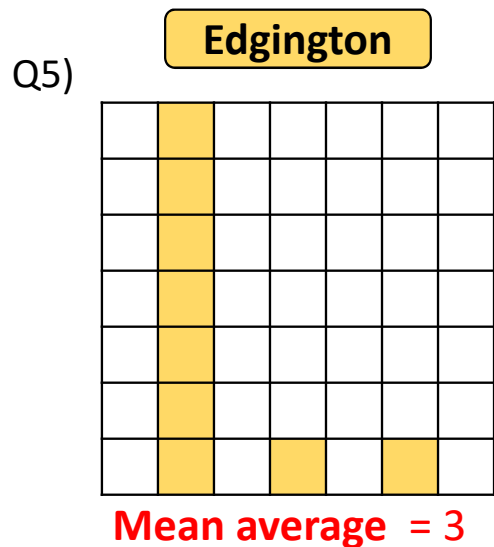


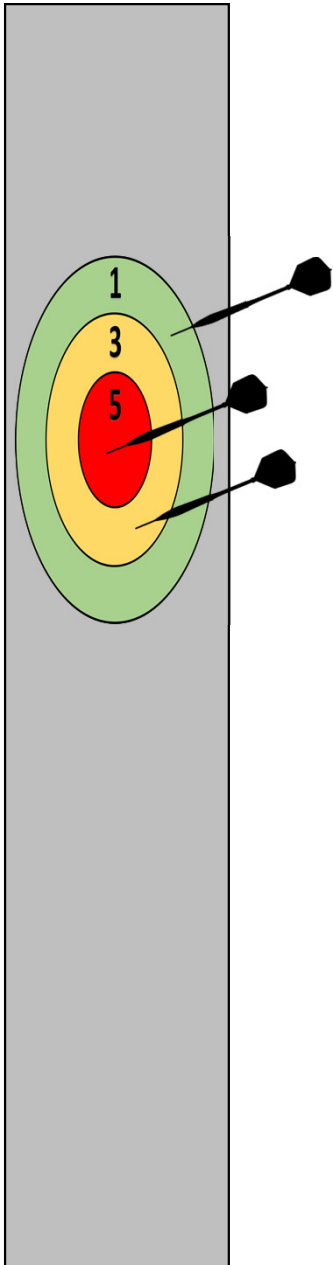
Mean average =

Find the **mean average** for these cities.  
Which city has the tallest buildings?



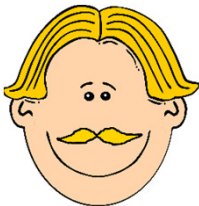
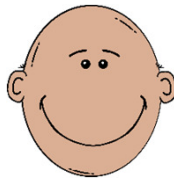
Demo





Two teams played darts.

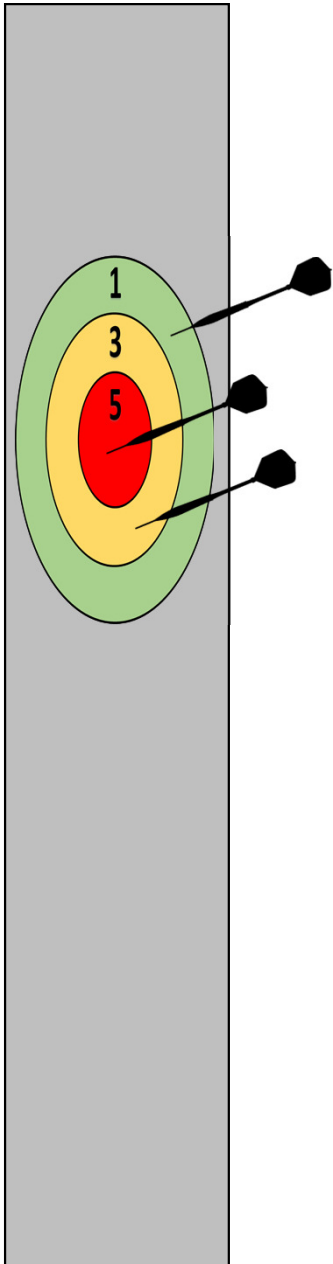
Activate



**Adults: 32 points**

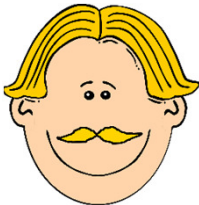
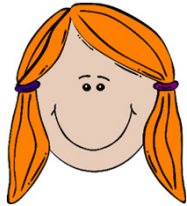
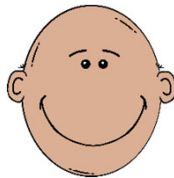
**Kids: 35 points**

Which team are the winners?



To be fair, we should calculate the points scored **per player**.

Activate



**Adults:** 32 points

**Kids:** 35 points


= 8 points per player

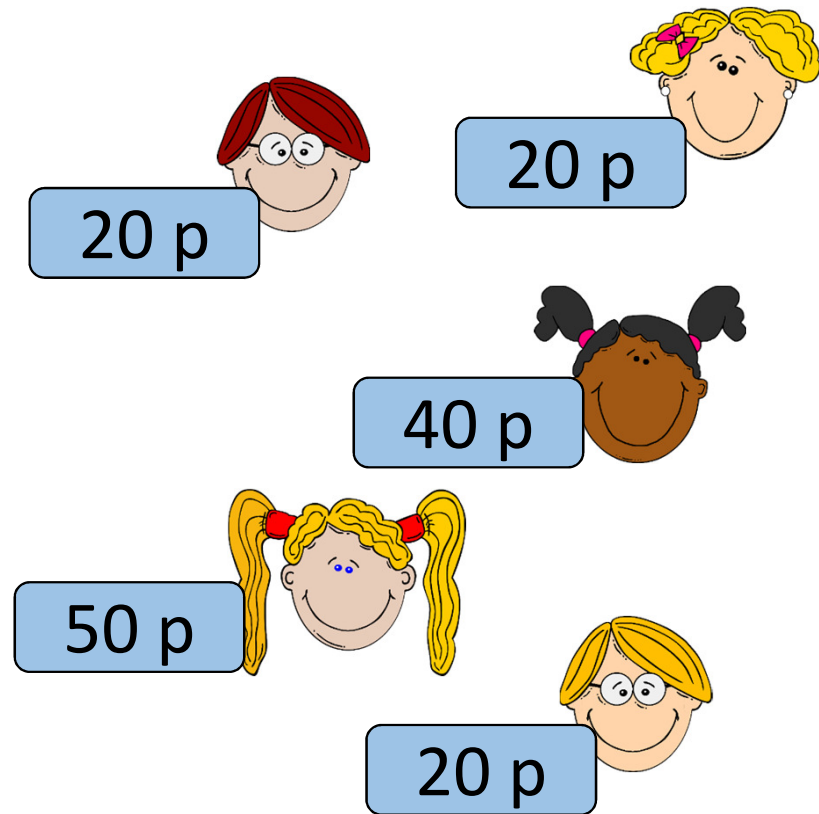
= 7 points per player

This is the **mean** score.

## Finding the Mean Average

The mean average describes the **central value** of a set of data.


$$\text{Mean} = \frac{\text{sum of all values}}{\text{total number of values}}$$



Demo

We do

$$\begin{aligned}\text{Mean} &= \frac{20 + 20 + 40 + 50 + 20}{5} \\ &= \frac{150}{5} = 30 \text{ p}\end{aligned}$$

Show your steps in your book!!!  
No Calculator!!!!!!

Demonstrate

### Level 1

Find the mean of the following sets of data:

1. 2, 3, 3, 4
2. 3, 5, 7, 9, 11
3. 3, 5, 6, 7, 7, 8
4. 10, 15, 20, 25, 30
5. 8, 12, 5, 5, 5
6. 100, 200, 400, 100
7. 4, 6, 7, 9, 11, 12, 14

### Level 2

Find the mean of the following sets of data:

1. 1.7, 3.4, 2.3, 2.6
2. 2.1, 6.2, 7.3, 9.9, 12
3. 2.3, 1.5, 6.2, 4.7, 5.8
4. 8.2, 7.5, 2.7, 5.6
5. 2.25, 5.3, 7.75, 9.7, 3.4, 1.6

### Level 3

Find the mean of this set of data

- 1) 0.7, 0.4, 0.6, 0.7, 0.9, 1.1, 1.2, 1.4
- 2) 23, 46, 79, 80, 73, 70, 83, 78, 23, 45



- 1.)  $x, 3x, 2x, 4x$
- 2.)  $x + 10, 2x - 30, 3x - 70$
- 3.)  $45 - 2y, 4y + 15, 3y + 20, 20$

### Level 1

Find the mean of the following sets of data:

- 2, 3, 3, 4
- 3, 5, 7, 9, 11
- 3, 5, 6, 7, 7, 8
- 10, 15, 20, 25, 30
- 8, 12, 5, 5, 5
- 100, 200, 400, 100
- 4, 6, 7, 9, 11, 12, 14

### Level 2

Find the mean of the following sets of data:

- 1.7, 3.4, 2.3, 2.6
- 2.1, 6.2, 7.3, 9.9, 12
- 2.3, 1.5, 6.2, 4.7, 5.8
- 8.2, 7.5, 2.7, 5.6
- 2.25, 5.3, 7.75, 9.7, 3.4, 1.6



### Level 3

**ANSWER**

Find the mean of this set of data

- 0.7, 0.4, 0.6, 0.7, 0.9, 1.1, 1.2, 1.4
- 23, 46, 79, 80, 73, 70, 83, 78, 23, 45

- 1.)  $x, 3x, 2x, 4x$
- 2.)  $x + 10, 2x - 30, 3x - 70$
- 3.)  $45 - 2y, 4y + 15, 3y + 20, 20$



Consolidate

What is the mean of these 5 numbers?

2 2 10 8 3



5



25



2



3

Consolidate

What is the mean of these 5 numbers?

2 2 10 8 3



5



25



2



3

