

THE MOST BEAUTIFUL VIEWS OF PARIS

Recommended for Key stage 2 &3 groups
English only
Maths worksheet for teachers



BUILDING THE MONTPARNASSE TOWER

Question 1

The building was completed 4 years after construction started. *When was the building started and completed?*

Construction started in 1969 and finished in 1973

Question 2 - A

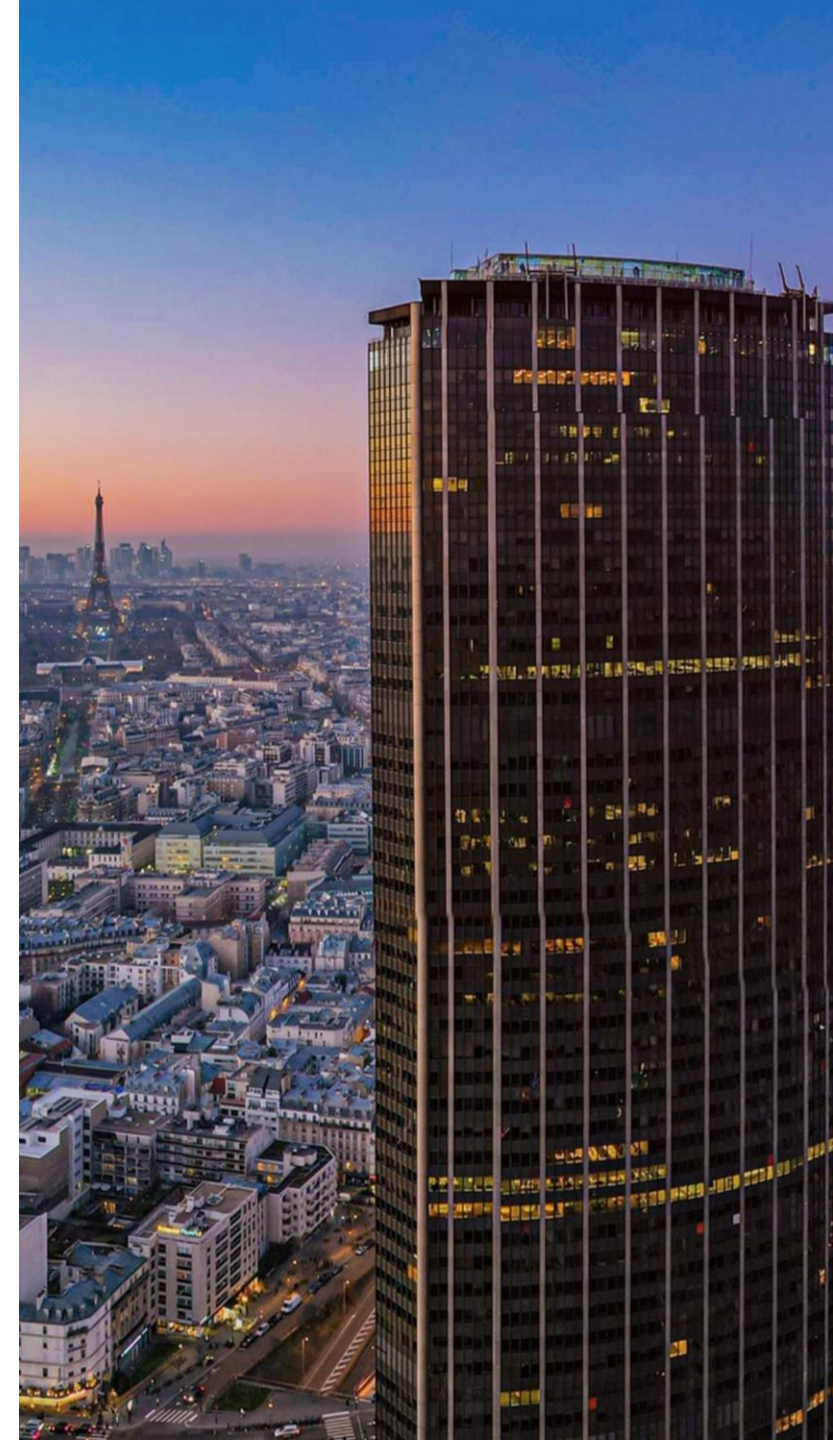
What is the total height of Montparnasse Tower?

210 meters

Question 2 - B

The foundations of the Tower are $\frac{1}{3}$ of its height. *What is the depth of the foundations?*

70 meters.



THE MONTPARNASSE TOWER AND OTHER

Please note that a calculator is required for certain questions.

Question 1

Until 2010, the Montparnasse Tower was the tallest building in France, but in 2010, the Tour First (La Défense, Paris) became the tallest building in France at 239m.

The tallest building in Europe completed in 2012 is the Mercury City Tower in Moscow at 338.8 meters and the tallest building in the world is the Burj Khalifa in Dubai, which was completed in 2010 and is 828 m. high.

What is the difference in height between the tallest building in France and the tallest building in the world? $828 - 239 = 589$ metres.

Question 2

Iconic tall buildings of the world:

- The Berlin TV Tower, Berlin, Germany was completed in 1969
- The Eiffel Tower, Paris, France was completed in 1889
- The Montparnasse Tower, Paris, France was completed in 1973
- The John Hancock Center, Chicago, USA was completed in 1969.
- One World Trade Center, New York, USA was completed in 2013

Please rank these buildings from newest to oldest: 1. One World Trade Center, 2. The Montparnasse Tower, 3. The Berlin TV Tower, 4. The John Hancock Center 5. The Eiffel Tower



PARISIAN METRO

These are some of the stations that line number 4 (Porte de Clignancourt to Mairie de Montrouge) runs through and the times the 12.45pm train stops at them:

- *Porte de Clignancourt* 12.45pm
- *Gare du Nord* 12.51pm
- *Les Halles* 12.59am
- *Cité* 1.03pm
- *Montparnasse- Bienvenüe* 1.10pm
- *Denfert-Rochereau* 1.14pm
- *Mairie de Montrouge* 1.19pm

Please assume that trains run every 5 minutes starting at 5.45am from Porte de Clignancourt.

The Paris Montparnasse Observatory Visit opens every morning of the year at 9.30am. The closest metro station to the Montparnasse Tower is Montparnasse-Bienvenüe and the walk from Montparnasse-Bienvenüe to the Observatory's ticket desk takes 5 minutes.

Question 1

At what time would you need to catch the train at Porte de Clignancourt to arrive for the opening of the Montparnasse 56 Observation Visit? 9 am

Question 2

If you left the Montparnasse Tower at 2.45pm, at what time would you get to Mairie de Montrouge? 2.59pm



VISITORS TO THE OBSERVATORY VISIT IN 2013:



		Nearest 10	Nearest 100	Nearest 1000
January	35,093	35,090	35,100	35,000
February	48,900			
March	83,383			
April	98,108			
May	131,088			
June	112,619			
July	161,083			
August	171,497			
September	93,267			
October	101,533			
November	57,305			
December	74,764			
TOTAL	1,168,640			

Please note that the numbers used in this worksheet are solely for illustration purposes. They're not always accurate and can not be used for any other purpose than this exercise.

VISITORS TO THE OBSERVATORY VISIT IN 2013:

Question 1

Put these figures above in ascending order: 35,093 / 48,900 / 57,305 / 74,764 / 83,383 / 93,267 / 98,108 / 101,533 / 112,619 / 131,088 / 161,083 / 171

Question 2

In which month did most Visitors visit Montparnasse Observation Visit and in which month did the least visitors visit?

Most: August / Least: January

Question 3

How many were there more visitors in the busiest month compared to the quietest month?

$171,497 - 35,093 = 136,404$.

Question 4 How many fewer visitors were there in March than in July:

$161,083 - 83,383 = 77,700$

Question 5

20% of visitors are French and 80% are international visitors. *In February, how many French visitors were there, and how many international visitors?*

French: 9,780 / International: 39,120.

Question 6

Using the chart above, please round up or down each of the monthly visitor numbers to the closest 10, 100 and 1000.



VISITORS TO THE OBSERVATORY VISIT IN 2013:

Question 1

The fastest elevator in Europe takes visitors from the ground floor of the Montparnasse Tower (height = 0m) to the 56th floor of the Montparnasse Tower (height = 196m) in 38 seconds.

At what speed (in metres per second, rounded to the closest whole number of m/s) does the elevator travel?:

$196/38 = 5$ metres per second

Question 2 - A

If the 56th floor of the Montparnasse Tower is a rectangle perfect (which isn't) two sides measure 36 m. and the two other sides 45m.

$1,620 \text{ m}^2$

Question 2 - B

1200 m² are open to the public. What percentage of the total surface area is open to the public?

81.52%

Question 2 - C

The rest of the space is occupied by offices and a gastronomic restaurant. What surface is occupied by the offices and gastronomic restaurant?

$1620 - 1200 = 420 \text{ m}^2$

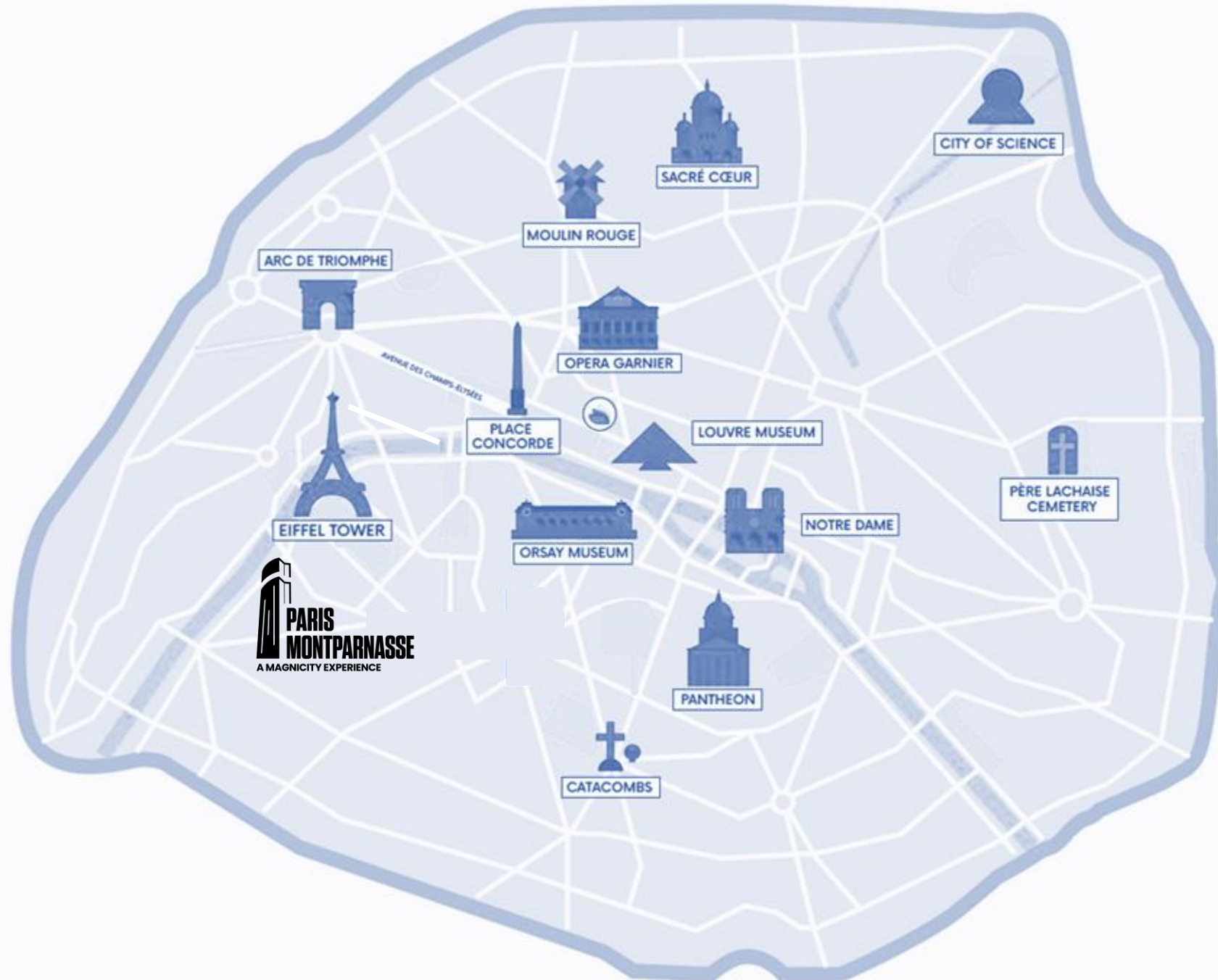
Question 3

There are 70 steps from the 56th floor up to the open-air terrace at the very top of the tower. The terrace is at a height of 210m. *What is the height of each step in meters, centimeters, and millimeters?*

$(210 - 196)/70 = 0.2\text{m} =$

$20\text{cm} = 200\text{mm}$







TOUR MONTPARNASSE

33 avenue du Maine, 75015 Paris

Metro lines 4, 6, 12, 13,
Station: Montparnasse-Bienvenüe

tourmontparnasse56.com