

Math Placement Test (MPT) **Sample Test**



Question 2

Use the given table or graph to write the inequality described.

Use an inequality to compare the number of calories in an apple and a bagel.

a)	80 < 155	Lunch items	Calories	Grams	Of	fat
		1 glass of milk (2%)	120		5	
b)	155 < 165	Tuna salad	350		22	
c)	80 < 165 (Correct Answer)	1 apple	80		1	
		i bagel	165		1	
d)	80 > 165	Bowl of soup	155		3	

Question 3

The ages of patients (in years) in a clinic are 18, 3, 27, 18, 64. Find the average of all ages.

- a) 3 years
- b) 16 years
- c) 17 years
- d) 26 years (Correct Answer)

[1 mark]

[1 mark]

Write the shaded part of the following set of objects using the fraction notation.



Question 6

[1 mark]

A serving of filleted fish is generally considered to be $\frac{1}{3}$ lb. How many servings can be prepared from $9\frac{1}{4}$ lb of flounder fillet?

a)
$$27\frac{3}{4}$$
 (Correct Answer)
b) $27\frac{1}{4}$
c) $29\frac{1}{4}$
d) $3\frac{1}{12}$

An advertisement states that television sets are on sale at B&G Electronics. The sale prices are: 13-inch set, \$147.99; 19-inch set, \$208.95; 21-inch set, \$231.99; 27-inch set, \$289.97; 50-inch set, \$519.97. Estimate the approximate number of 13-inch sets that can be bought for \$12,000 by first rounding the price to the nearest ten.

- a) 20
- b) 80 (Correct Answer)
- c) 90
- d) 180

Question 8

[1 mark]

At an advertising agency that employs 275 people, 195 employees receive 3 weeks of paid vacation each year. Find the ratio of those who receive 3 weeks of paid vacation to those whose paid vacation is not 3 weeks.

a) $\frac{16}{39}$ b) $\frac{39}{16}$ (Correct Answer) c) $\frac{39}{55}$ d) $\frac{55}{39}$

Question 9

[1 mark]

On April 26, 2005, 1 U.S. dollar was worth about 0.52521 British pounds. How much would a car have cost in U.S. dollars that cost 10,140 British pounds?

- a) \$19,306.56 (Correct Answer)
- b) \$5,536.44
- c) \$18,847.58
- d) \$5,325.63

The following table shows the price of four different offers of soft drinks.

Brand	Price (AED)	Cans
Brand A	AED 15.9	12 cans
Brand B	AED 20.9	18 cans
Brand C	AED 25.5	24 cans
Brand D	AED 35.5	32 cans

Determine which brand of soft drinks is the **best buy** based on the unit price of each brand.

- a) Brand A
- b) Brand B
- c) Brand C (Correct Answer)
- d) Brand D

Question 11

[1 mark]

The sides in each pair of figures are proportional. Find the missing length *h*.

- a) 3 ft.
- b) 6 ft. (Correct Answer)
- c) 12 ft.
- d) 16 ft.

Question 12

Find the height h of the wall.

- a) 5 ft.
- b) 10 ft.
- c) 12 ft. (Correct Answer)
- d) 22 ft.







Question 13

Find the fraction notation for the percent of the population that is 0-5 years.

a) $\frac{3}{50}$ (Correct Answer)	Population of Countr (Data have been roun	Population of Country X by Selected Age Categories (Data have been rounded to the nearest percent.)		
1	Age Category	Percent of Population		
b) $\frac{1}{10}$	0-5 years	6%		
	6-17 years	10%		
c) $\frac{9}{17}$	18-29 years	36%		
25	18 years and older	70%		
d) $\frac{7}{7}$	65 years and older	18%		
(1) $\frac{10}{10}$	80 years and older	4%		

Question 14	[1 mark]

Ahmed has AED 1800 invested in the stock market. This amounts to 25% of his total savings. How much has Ahmed saved?

- a) AED 7,200 (Correct Answer)
- b) AED 7,300
- c) AED 7,210
- d) AED 72,000

Question 15

[1 mark]

A physician prescribes one 0.4 mg tablet of a medication to be taken twice a day for 8 days. How many total mcg of the medication will the patient have taken after 8 days?

- a) 3.2 mcg
- b) 6.4 mcg
- c) 3200 mcg
- d) 6400 mcg (Correct Answer)

Maha checked the outside temperature at noon one day and found it was 26° C. At 10 PM when she checked, the outside temperature was 18° C. How much, in degrees Fahrenheit, did the temperature drop between noon and 10 PM? Round your answer to the nearest tenth.

- a) -17.6° F
- b) -10.8° F
- c) 4.4° F
- d) 14.4° F (Correct Answer)

Question 17

[1 mark]

[1 mark]

A pest control company sprays insecticide around the perimeter of a 430 ft by 160 ft building. If the spray costs \$0.15 per foot, how much did the job cost to the nearest dollar?

- a) \$89
- b) \$177 (Correct Answer)
- c) \$860
- d) \$10,320

Question 18

Find the total area of the roof of the garage.

- a) 42 ft^2
- b) 104 ft²
- c) 208 ft² (Correct Answer)
- d) 312 ft^2



d = 3 m

Find the volume of the following shape.

a) 7.948 m³
b) 9.42 m³
c) 14.13 m^{3 (Correct Answer)}
d) 113.04 m³

Question 20

[1 mark]

A bike road race starts at an elevation of 890 feet and passes through 5 stages where the elevation changes by 53 feet, -686 feet, -244 feet, and -76 feet. At what elevation does the race end?

- a) -2,287 feet
- b) 179 feet
- c) 275 feet (Correct Answer)
- d) 2287 feet