

Brian Olsen

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Ratio and Algebra**Math Assessment Test-2****80%**

Points: 16 out of 20
 Duration: 01:03:56
 Date started: Mon 18 Jan '21 4:06pm
 Date finished: Mon 18 Jan '21 5:10pm

Statistics by Category

Answers

✓ Correctly answered ✗ Incorrectly answered ➡ Missed correct option

All Questions | **16** Correct | **4** Incorrect

Question 1 of 20

Elementary Math

Which of the following ratios is equivalent to $\frac{9}{2}$?

Correct answer: **C)**
 Selected answer: **C)**

- A) 18 to 5
 B) 90:200
 ✓ C) 4.5:1
 D) $\frac{27}{4}$

Points: 1 out of 1

Question 2 of 20

Elementary Math

Solve for u: $\frac{13}{117} = \frac{u}{27}$

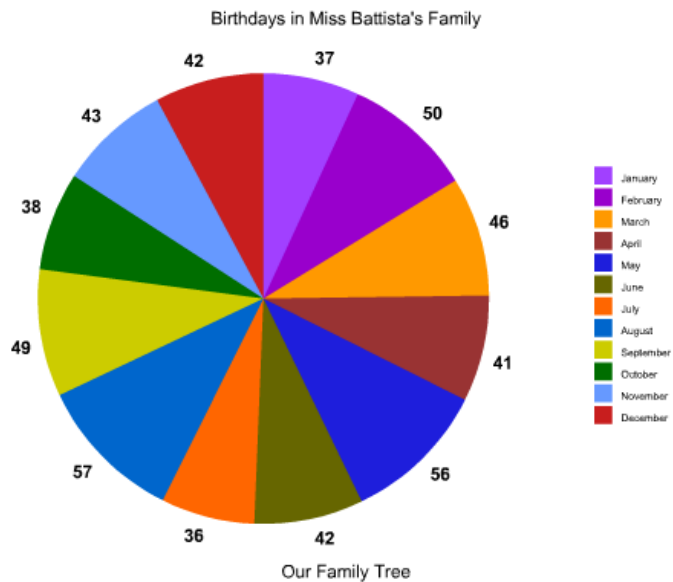
Correct answer: **B)**
 Selected answer: **B)**

- A) u=9
 ✓ B) u=3
 C) u=8
 D) u=11

Points: 1 out of 1

Question 3 of 20

Elementary Math



Miss.Battista made a chart showing what month everyone in her family is born in. The results are shown above. What is the ratio of the people born in September and October to the people born in November and December?

Correct answer: **A)**
Selected answer: **A)**

- ✓ **A)** 87:85
- B)** 49:43
- C)** 38:42
- D)** 49:87

Points: 1 out of 1

Question 4 of 20

Elementary Math

Solve for u: $u/2.04 = 5/20$

Correct answer: **B)**
Selected answer: **B)**

- A)** $u=0.52$
- ✓ **B)** $u=0.51$
- C)** $u=0.61$
- D)** $u=0.62$

Points: 1 out of 1

Question 5 of 20

Middle School Math

Solve the following algebraic proportions by cross multiplying:

$$9/5 = c^{-1}/10$$

Correct answer: **B)**
Selected answer: **B)**

- A)** 20
- ✓ **B)** 19

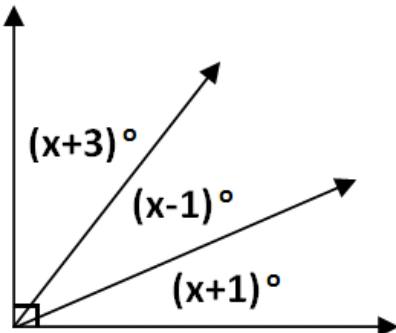
C) 18

D) 21

Points: 1 out of 1

Question 6 of 20

Middle School Math

Find the value of x :Correct answer: A)
Selected answer: A)

✓ A) 29

B) 87

C) 59

D) 30

Points: 1 out of 1

Question 7 of 20

Middle School Math

Two angles are supplementary. If one of the angles is double the other angle, find the two angles.

Correct answer: B)
Selected answer: B)

A) 30,60

✓ B) 60,120

C) 90,90

D) 40,140

Points: 1 out of 1

Question 8 of 20

Middle School Math

Length of rectangle is 4 m less than 3 times its Breadth. If the perimeter of rectangle is 32 m. Find its length and breadth.

Correct answer: C)
Selected answer: C)

A) L= 5; B=11

B) L=3; B=13

✓ C) L=11;B=5

D) L=13;B=3

Points: 1 out of 1

Question 9 of 20

Middle School Math

The difference between two positive integers is 32. The ratio of these integers is 1 : 3. Find these integers.

Correct answer: **A)**Selected answer: **A)**✓ **A)** 16,48**B)** 8,24**C)** -16,-24**D)** -8,-24

Points: 1 out of 1

Question 10 of 20

Middle School Math

Solve the following equation:

$$(3x - 2)/3 + (2x + 3)/3 = x + 7/6$$

Correct answer: **C)**Selected answer: **B)****A)** $-\frac{9}{4}$ ✗ **B)** $\frac{9}{4}$ → **C)** $\frac{5}{4}$ **D)** $-\frac{5}{4}$

Points: 0 out of 1

Question 11 of 20

Middle School Math

The supplement of an angle is 18 less than 3 times the complement of an angle. What is the measure of the angle?

Correct answer: **D)**Selected answer: **C)****A)** 72**B)** 59✗ **C)** 45→ **D)** 36

Points: 0 out of 1

Question 12 of 20

Middle School Math

The difference between a number and its three-fifths is 50. What is the number?

Correct answer: **A)**
Selected answer: **A)**

- ✓ **A)** 125
B) 75
C) 50
D) 100

Points: 1 out of 1

Question 13 of 20

Middle School Math

A 300 m long wire is used to fence a rectangular plot whose length is twice its width. Find the length and breadth of the plot.

Correct answer: **C)**
Selected answer: **C)**

- A)** 80,40
B) 30,10
✓ **C)** 100,50
D) 105,45

Points: 1 out of 1

Question 14 of 20

Middle School Math

In a triangle, the second angle is 21 degrees more than the first angle. The third angle is 54 degrees more than the first angle. What are the three angles?

Correct answer: **B)**
Selected answer: **B)**

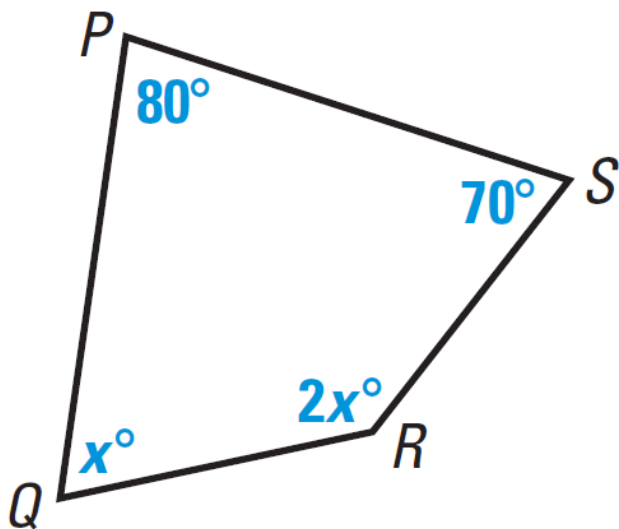
- A)** 40,61,94
✓ **B)** 35,56,89
C) 38,59,83
D) 30,51,84,

Points: 1 out of 1

Question 15 of 20

Middle School Math

Find x.



Correct answer: B)
Selected answer: B)

- A) 120°
- ✓ B) 70°
- C) 140°
- D) 60°

Points: 1 out of 1

Question 16 of 20

Middle School Math

The perimeter of a rectangle is 54 inches and the length is 11 inches longer than the width. What is the area?

Correct answer: D)
Selected answer: D)

- A) 176 sq.in
- B) 80 sq.in.
- C) 160 sq.in.
- ✓ D) 152 sq.in.

Points: 1 out of 1

Question 17 of 20

Middle School Math

Three pumps can remove a total of 1700 gallons of water per minute from a flooded mineshaft. If engineers want to remove at least 5500 gallons per minute, how many pumps will they need operating?

Correct answer: B)
Selected answer: A)

- ✗ A) 9
- B) 10
- C) 4
- D) 5

Points: 0 out of 1

Question 18 of 20


Middle School Math

The complement of an angle is 30 less than twice the angle. Find the angles.

Correct answer: **A)**Selected answer: **B)** **A)** $40^\circ, 50^\circ$  **B)** $30^\circ, 60^\circ$ **C)** $70^\circ, 110^\circ$ **D)** $20^\circ, 70^\circ$ **Points:** 0 out of 1**Question 19 of 20**

Middle School Math

The base and height of a triangle are in the ratio 8 : 5 and its area is 320 m^2 . Find the base and the height.

Correct answer: **B)**Selected answer: **B)****A)** 80m, 50m **B)** 32m, 20m**C)** 128m, 80m**D)** 24m, 15m**Points:** 1 out of 1**Question 20 of 20**

Middle School Math

The sum of three consecutive multiples of 5 is 555. Find the multiples.

Correct answer: **C)**Selected answer: **C)****A)** 182, 185, 188**B)** 170, 175, 180 **C)** 180, 185, 190**D)** 111, 112, 113**Points:** 1 out of 1