

PRAXIS-MATHEMATICS-SECTION Q&As

Pre-Professional Skills Test (PPST) - Mathematics Section

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QUESTION 1

9/20 =

A. 50%

B. 45%

C. 40%

D. 35%

E. 25%

Correct Answer: B

Explanation: Multiply both 9 and 20 by 5.

QUESTION 2

If the value of x is between 0.00776 and 0.0506, which of the following numbers could be x?

A. 0.008

- B. 0.890
- C. 0.0008
- D. 0.8009

E. 0.809

Correct Answer: A

Explanation: When solving this sort of problem, it may help to write the two given numbers so that one is under the other and the decimal points are aligned.

QUESTION 3

Gerald received the following test scores in math class: 76, 86, 89, 81, and 99. What was Gerald\\'s average test score, rounded to the nearest point?

Α.	85		

B. 88

C. 84

- D. 87
- E. 86



Correct Answer: E

Explanation: Add all of the scores together and divide by the number of scores.

QUESTION 4

Randy got the following test scores in science class: 76, 98, 78, 80, and 54. What is the median test score?

A. 77 B. 98 C. 54 D. 84 E. 78

Correct Answer: E

Explanation: The median is the piece of data that is in the middle position when the entire set is placed in order from least to greatest.

QUESTION 5

8.26 x 76.8 =

A. 6343.68

B. 63.4368

C. 634.368

D. 634,368

E. 6.34368

Correct Answer: C

Explanation: Remember that since the terms of the problem have three units to the right of the decimal point, the answer will as well.

QUESTION 6

4 2/3 – 2 ½ =

- A. 1 1/6
- B. 1 1/2
- C. 2 2/3



D. 2 1/6

E. 2 1/4

Correct Answer: D

Explanation: Convert both fractions so that they have a common denominator of 6.

QUESTION 7

John\\'s sock drawer contains 4 pairs of green socks, 7 pairs of black socks, and 7 pairs of red socks. If

John reaches into the drawer at random, what are his chances of NOT selecting a pair of green socks?

- A. 1/3
- B. 7/9
- C. 2/5
- D. 10/18
- E. 3/4

Correct Answer: B

Explanation: 14 of the 18 pairs of socks are not green; the fraction 14/18 can be simplified as 7/9.

QUESTION 8

A T-shirt that was selling for \$24 has had its price reduced by 15%. How much does it cost now?

A. \$20.75

B. \$20.40

- C. \$20
- D. \$21
- E. \$21.50
- Correct Answer: B

Explanation: Multiply the original price by 0.15, and then subtract this amount from the original price.

QUESTION 9

Albert is driving at 80 miles per hour. How far will he go in 45 minutes?

A. 60 miles



- B. 45 miles
- C. 80 miles
- D. 180 miles
- E. 90 miles
- Correct Answer: A

Explanation: 45 minutes is three-quarters of an hour, which can be rewritten as the decimal 0.75. Multiply this decimal by his speed.

QUESTION 10

If Ted runs at 8 miles an hour, which computation would you use to determine how far Ted runs in 15 minutes?

A. 8 x 15

B. 8 x 25

- C. 8 x 0.15
- D. 8 x 0.25
- E. 8 x 2.5
- Correct Answer: D

Explanation: Fifteen minutes is a quarter-hour, which is equivalent to the decimal 0.25.

QUESTION 11

3/27 =

- A. 1/9
- B. 1/10
- C. 1/2
- D. 3/18
- E. 2/7

Correct Answer: A

Explanation: Divide numerator and denominator by 3.

QUESTION 12

17/68 =		
A. 30%		
B. 1/3		
C. 45%		
D. 1/4		
E. 2/5		
Correct Answer: D		

Explanation: The simplest form of this fraction can be found by dividing both sides by 17.

QUESTION 13

The five starters on a basketball team each scored at least 5 points and no more than 17 points in a basketball game. Which of the following values is a reasonable estimate of the average score of each player?

A. 6
B. 17
C. 20
D. 22
E. 12
Correct Answer: E

Explanation: It is reasonable to assume that the average score will be close to the middle of the range.

QUESTION 14

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If x = -5, then |x - 7| =
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- A. -12
- B. 2
- C. 10
- D. -2
- E. 12

Correct Answer: E

Explanation: Remember that absolute value is the distance from zero on a real number line, and therefore cannot be zero.



QUESTION 15

- 12x 4x + 8 =
- A. 16x
- B. 10x
- С. х
- D. 8x + 8
- E. 20x
- Correct Answer: D

Explanation: Remember that unlike terms cannot be combined.

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