PRAXIS-MATHEMATICS-SECTION^{Q&As}

Pre-Professional Skills Test (PPST) - Mathematics Section

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QUESTION 1

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 2

If Todd can type 60 words a minute, how long will it take him to type a 15,000 word document?

A. 2 hours and 45 minutes

B. 2 hours

C. 4 hours and 10 minutes

D. 4 hours and 30 minutes

E. 3 hours and 30 minutes

Correct Answer: C

Explanation: Divide the length of the document by the number of words per minute to find the number of minutes it will take. The number of minutes can then be divided by the number of minutes in an hour. 250 minutes is equivalent to 4 hours and 10 minutes.

QUESTION 3

If John scores 20% of his team\\'s points in a basketball game, how many points does the team score if John scores 14 points?

A. 66

B. 74

C. 72

D. 68

E. 70

Correct Answer: E

Explanation: 20% is one-fifth, so multiply John\\'s point total by 5.

QUESTION 4

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 5

What percent of 38 is 16?

A. 16%

B. 40%

C. 35%

D. 38%

E. 42%

Correct Answer: E

Explanation: Divide 16 by 38 and multiply by 100.

QUESTION 6

What is the volume of a rectangular solid that is 8 inches long, 6 inches wide, and 4 inches tall?

A. 192 cubic inches

B. 184 cubic inches

C. 194 square inches

D. 192 square inches

E. 194 cubic inches

Correct Answer: A

Explanation: Volume is found by multiplying length, width, and height.

QUESTION 7

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 8

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 9

Solve and simplify: 2/3 x 3/5 x 5/10 x 6/8 =

A. 0.2

B. 0.5

C. 0.15

D. 0.25

E. 0.333333333

Correct Answer: C

Explanation: Fractions are multiplied by multiplying numerators by numerators and denominators by denominators. Some of the fractions in this problem can be simplified.

QUESTION 10

John will be x in 7 years. How old was he last year?

A. x + 7

B. 1 − x - 7

C. x + 8

D. x - 8

E. 7x

Correct Answer: D

Explanation: The target age can be found by subtracting first seven and then one year from x.

QUESTION 11

If 5x + 7 = 8x − 2, then

A. x = 5

B. x = 3

C. x = 4

D. x = 2

E. x = 1

Correct Answer: B

Explanation: Solve the equation for x by subtracting 5x from both sides, adding 2 to both sides, and then dividing both sides by 3.

QUESTION 12

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 13

54 is 75% of what number?

A. 80

B. 75

C. 70

D. 100

E. 72

Correct Answer: E

Explanation: Multiply 54 by 100 and then divide by 75.

QUESTION 14

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?

A. 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 15

Which of the following units would be most appropriate for measuring the length of a pen?

A. Miles

B. Meters

C. Micrometers

D. Nanometers

E. Centimeters

Correct Answer: E

Explanation: All of the other units are either much too big or much too small.

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