

PRAXIS-MATHEMATICS-SECTION^{Q&As}

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QUESTION 1

$4 \frac{2}{3} - 2 \frac{1}{2} =$

- A. $1 \frac{1}{6}$
- B. $1 \frac{1}{2}$
- C. $2 \frac{2}{3}$
- D. $2 \frac{1}{6}$
- E. $2 \frac{1}{4}$

Correct Answer: D

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

QUESTION 2

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 3

Three people divide up a large pizza. If the first person gets half and the second person gets half as much as the first person, how much is left for the third person?

- A. $\frac{1}{3}$
- B. $\frac{1}{2}$
- C. $\frac{1}{4}$
- D. $\frac{2}{4}$
- E. $\frac{1}{5}$

Correct Answer: C

Explanation: The first person gets ? the second gets ? leaving ?for the third person.

QUESTION 4

If Isaac scored 16 points in the first half of a basketball game and half as many in the second half, how many did he score in the game in all?

- A. 16
- B. 20
- C. 22
- D. 24
- E. 28

Correct Answer: D

Explanation: Divide 16 by 2 and add 8 to the dividend.

QUESTION 5

On a real number line, $x = -4$ and $y = 7$. What is the length of the line XY?

- A. 11
- B. 3
- C. - 11
- D. 7
- E. 10

Correct Answer: A

Explanation: Measure the length of the line by adding the respective distances of each value from zero.

QUESTION 6

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 7

Rex is four times as old as Ted. If the sum of their ages is 30, how old is Ted?

A. 5

B. 8

C. 10

D. 6

E. 12

Correct Answer: D

Explanation: The ratio of Rex's age to Ted's age is 4:1; the sum of their ages can be divided by the total number of units in this ratio, 5. This indicates that Rex is 24 and Ted is 6.

QUESTION 8

Don gets paid \$9 an hour, but if he works more than 30 hours in a week his rate of pay is increased by $\frac{1}{2}$. How much would Don get paid for a 38-hour work week?

A. \$342

B. \$390

C. \$367

D. \$378

E. \$365

Correct Answer: D

Explanation: The problem can be solved with the following expression: $30(9) + 8(9 \times 1.5)$

QUESTION 9

$\frac{3}{27} =$

A. $\frac{1}{9}$

B. $1/10$

C. $1/2$

D. $3/18$

E. $2/7$

Correct Answer: A

Explanation: Divide numerator and denominator by 3.

QUESTION 10

Solve: $3/5 - (-2) =$

A. $-12/5$

B. $5/13$

C. $-13/5$

D. $13/5$

E. $-5/13$

Correct Answer: D

Explanation: Subtracting a negative number is the same as adding it.

QUESTION 11

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.

QUESTION 12

A number is multiplied by 6 and then has 4 subtracted from it. The answer is 14. Which of the following equations

matches these statements?

- A. $14 = 4 - 6x$
- B. $4x - 6 = 14$
- C. $6x - 4 = 14$
- D. $6(x - 4) = 14$
- E. $-6x = -14$

Correct Answer: C

Explanation: In this equation, the order of operations will dictate that the multiplication takes place before the subtraction.

QUESTION 13

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 14

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 15

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.

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